



TXO PRODUCTION CORP.

1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

June 22, 1989

RECEIVED
JUN 26 1989

Utah Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

DIVISION OF
OIL, GAS & MINING

Attention: Ronald J. Firth

Re: **CONFIDENTIAL**
Croquet Federal #4
NE/SW Section 35-T6S-R21E
Uintah County, Utah

Gentlemen:

Enclosed for your review and approval are three copies of Federal Form 3160-3, with attachments, as application for permit to drill the referenced well. The federal APD form and its attachments, including a survey plat, drilling plan and surface use plan, provide the information required by R615-8-3.

TXO Production Corp. will obtain an approved temporary water use permit from the Utah Division of Water Rights prior to drilling this well. The Green River is the anticipated water source.

If you have any questions or need additional information, please contact me at this office.

Very truly yours,

TXO PRODUCTION CORP.

Charles K. Curlee
6

Charles K. Curlee
Environmental Manager

CKC/gbp

Enclosure



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐

GAS
WELL ☒

OTHER

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

TXO Production Corp. Attn: C.K. Curlee

3. ADDRESS OF OPERATOR

1800 Lincoln Center, Denver, CO 80264

4. LOCATION OF WELL (Report location clearly and in accordance with the requirements of the Federal Land Management Policy Act of 1976, as amended.)

1879' FWL, 2132' FSL (NE/SW)
At proposed prod. zone

RECEIVED
JUN 26 1989

5. LEASE DESIGNATION AND SERIAL NO.

U-53862

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Croquet Federal

9. WELL NO.

4

10. FIELD AND POOL, OR WILDCAT

Horseshoe Bend

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

Section 35-T6S-R21E

12. COUNTY OR PARISH

Uintah

13. STATE

UT

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approximately 15 miles So. of Vernal, Utah

DIVISION OF
OIL, GAS & MINING

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any)

1879'

16. NO. OF ACRES IN LEASE

635.15

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED, APPROX. 2100'
OR APPLIED FOR, ON THIS LEASE, FT. (Croquet Fed. #2)

19. PROPOSED DEPTH

3650' Green River

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4753' G.R.

22. APPROX. DATE WORK WILL START*

August 15, 1989

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24.0#	350'	230 sacks
7 7/8"	4 1/2"	10.5#	3800'	250 sacks

CONFIDENTIAL

All casing will be new K-55. Refer to attached Drilling Plan for program details.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Gary E. Wurdeman

TITLE

Dist. Drilling & Prod. Mgr

DATE

June 14, 1989

(This space for Federal or State office use)

PERMIT NO.

43-047-31868

APPROVAL DATE

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

APPROVED BY

TITLE

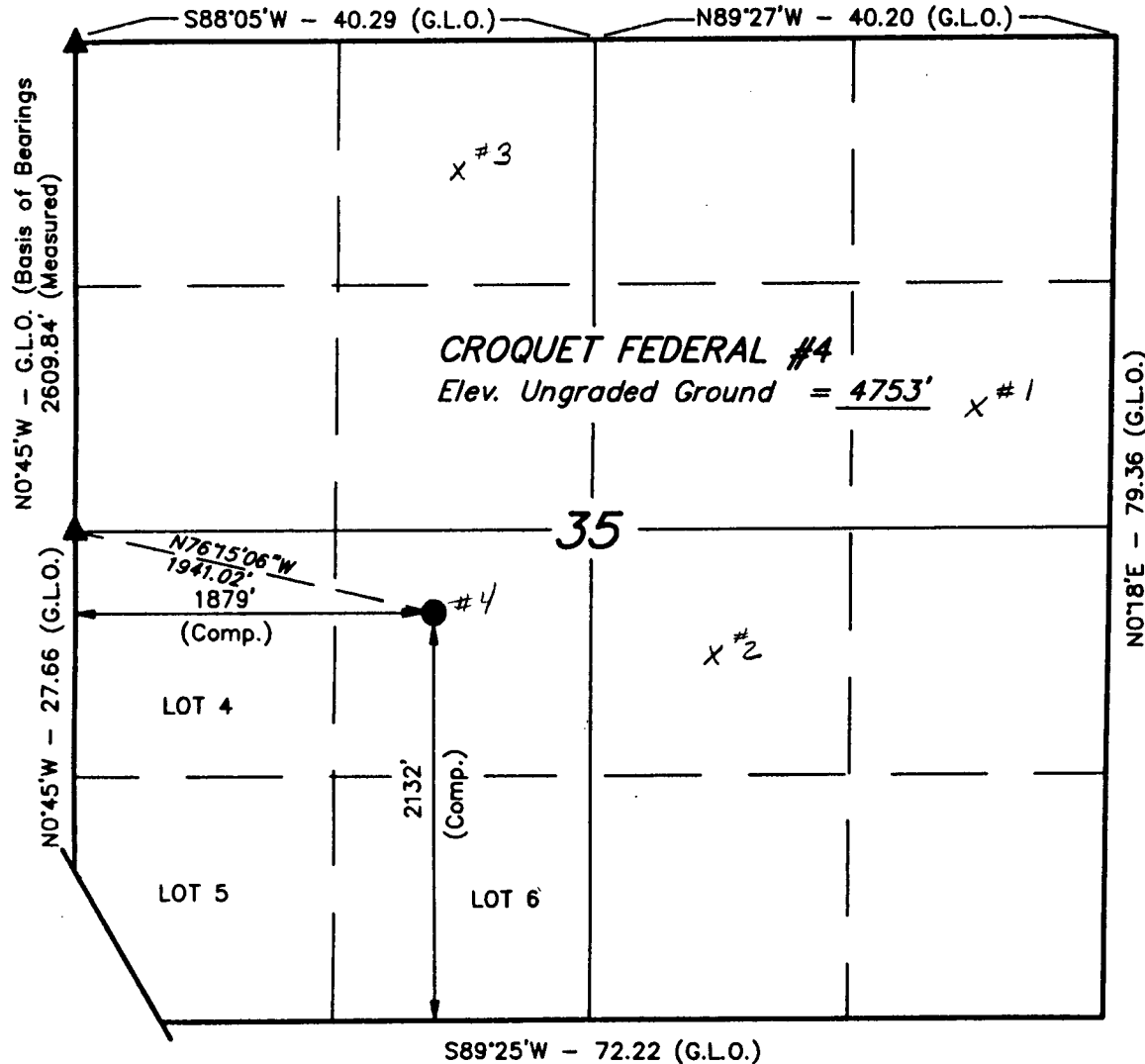
DATE 7-7-89

BY: [Signature]

WELL SPACING: Cause No. 145-8

*See Instructions On Reverse Side

T6S, R21E, S.L.B.&M.



▲ = SECTION CORNERS LOCATED. (BRASS CAPS)

TXO PRODUCTION CORP.

Well location, CROQUET FEDERAL #4, located as shown in the NE 1/4 SW 1/4 of Section 35, T6S, R21E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION ON A HILL TOP IN THE SOUTHWEST 1/4 OF SECTION 26, T6S, R21E, S.L.B.&M. TAKEN FROM THE VERNAL SE QUADRANGLE, UTAH - UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP). PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4938 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Robert L. Kay
REGISTERED LAND SURVEYOR
REGISTRATION NO. 5709
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX 1758 - 85 SOUTH - 200 EAST
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 6-6-89
PARTY R.L.K. K.K. J.T.K.	REFERENCES G.L.O. PLAT
WEATHER WARM	FILE TXO PRODUCTION CORP.

DRILLING PLAN

DATE: June 14, 1989

WELL NAME: Croquet Federal #4

SURFACE LOCATION: 1879' FWL, 2132' FSL, (NE/NW) Section 35-T6S-R21E, SLB&M,
Uintah County, Utah

FEDERAL OIL & GAS LEASE NO.: U-53862

Be advised that TXO Production Corp. is considered to be the operator on the above described lands and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands or portions thereof, bond coverage for this well is provided by Bond No. 5570134, Principal TXO Production Corp.

I. DRILLING PROGRAM

1. **SURFACE FORMATION:** Duchesne River
2. **ESTIMATED FORMATION TOPS:**

Uinta	1000'
Uinta "B"	3233'
Green River	3450'
Total Depth	3650'
3. **ESTIMATED DEPTH AT WHICH OIL, GAS, WATER OR OTHER MINERAL BEARING ZONES ARE EXPECTED TO BE ENCOUNTERED:**

Expected Gas Zones: Uinta "B"
4. **PRESSURE CONTROL EQUIPMENT:**
 - A. After surface casing is set, a double ram-type blowout preventer with blind rams and pipe rams, with minimum working pressure of 2000 psi will be installed. See Exhibit 1.
 - B. A choke control, fill and kill lines with minimum working pressure of 2000 psi will be installed. Choke and kill lines will be 2" minimum in size.
 - C. The equipment in A and B will be pressure-tested to 2000 psi for a minimum of 15 minutes before drilling surface pipe cement. The blowout preventer will be tested for proper operation daily and during trips.
5. **CASING PROGRAM AS PER FORM 3160-3.**

6. MUD PROGRAM:

0'-2600' Native, 8.8-9.2 ppg, 28-32 viscosity API
2600'-TD LSND, 9.0-9.4 ppg, 35-45 viscosity API; WL less than
10 cc's.

7. CORING, LOGGING, TESTING PROGRAM:

- A. No coring anticipated.
- B. Logging will consist of: GR-SP-DIL from TD to surface casing; GR, CAL, FDC-CNL from TD to \pm 500' above TD.
- C. Possible DST for Uinta "B" zone.

8. ABNORMAL CONDITIONS:

- A. No abnormal pressures or temperatures are expected.
- B. No hazardous gases such as H₂S are expected.

9. AUXILIARY EQUIPMENT:

- A. A kelly cock will be used.
- B. A float valve will be run in the drill string above the bit.
- C. A sub with full opening valve will be kept on the derrick floor to stab into DP when kelly is not in use.

10. ANTICIPATED STARTING DATES:

Start location construction	August 15, 1989
Spud date	August 18, 1989
Complete drilling	August 28, 1989
Completed	September 7, 1989

11. COMPLETION PROGRAM:

A smaller completion rig will replace the drilling rig for this portion of the operations if the well shows capability of commercial production. After casing is set by the drilling rig, the completion rig will be moved in and productive zones will be perforated, tested and treated as necessary. Gas will be flared during testing. Produced liquid hydrocarbons will be directed to test tanks on location. Produced water will be contained in the drilling reserve pit. The extent of treatment of a zone (acidizing and/or fracing) can only be determined after the zone has been tested. An exact completion program will be furnished after drilling and logging, if requested.

II. SURFACE USE PROGRAM

1. EXISTING ROADS

- A. From Vernal, Utah proceed 10.3 miles south on new highway. Turn right (west) just before crossing the Green River across narrow saddle and into "Horseshoe Bend" area surrounded by the Green River. Turn left (east) and proceed 0.15 miles on existing road to beginning of access road. Location is 0.2 miles north.
- B. Access route to location color coded in red and labeled. Refer to Exhibit 2.
- C. For development well, all existing roads within one mile color coded in yellow. Refer to Exhibit 3.
- D. Plans for improvement and maintenance of existing roads: The existing roads will require minimal maintenance. During wet periods, maintenance may be necessary to facilitate passage by heavy well servicing equipment. Dry periods will require some road watering to control dust and improve stability.

2. PLANNED ACCESS ROAD

- A. Approximately 0.2 of new road will be constructed in a 30' right-of-way width to provide access to the well pad. The road will be flat-bladed to a 16' running surface and will have a grade of $\pm 4\%$. No culverts, fence cuts or turnouts will be necessary. See Exhibit 4.
- B. All travel will be confined to existing access road rights-of-way. Access roads and surface disturbing activities will conform to standards outlined in the USGS Publication (1978) Surface Operating Standards for Oil & Gas Development.

3. LOCATION OF EXISTING WELLS

Exhibit 5 is a one-mile radius locating and identifying the following:

- A. Water wells-None
- B. Injection Wells-None
- C. Abandoned Wells-Lockr HB 14-24; I McLish 34-35
- D. Disposal Wells-None
- E. Producing Wells-TXO Bridle Fed's 1,2,3; Lockr HB 14-35
- F. Drilling Wells-None
- G. Shut-in Wells-None

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

A. On-well-pad production facilities, if well is successfully completed for production.

1. Proposed facilities and attendant lines in relation to the well pad. Refer to Exhibit 6.
2. Dimensions of facilities: Refer to Exhibit 6.
3. The production facilities will include: Combination production unit, meter run, and dehydrator, a condensate tank, and two small production pits. The anticipated location of these facilities is shown on Exhibit 6.

The pits will be located in cut to contain all water production and built in accordance with NTL-2B IV.4. specifications for disposal of less than five barrels of produced water per day. In the event the volume of produced water exceeds 5 BWPD, TXO will investigate alternate disposal methods and obtain approval as required by NTL-2B.

4. Two pits are required for efficient operations at this prospective gas well.

One pit will contain high pressure blowdown discharges and the second pit will be located adjacent to the production unit. The blowdown pit will be remote from the production equipment because of the hazards of the occasional high pressure discharge. Limited fluid discharge from the production equipment to the blowdown pit is not feasible due to line freezes in winter. Thus, the second pit is required adjacent to the production equipment.

5. Protective devices and measures to protect livestock and wildlife: The water production pit and blowdown pit will be fenced with woven wire in a welded frame to protect livestock and wildlife. Production lines on the location between the wellhead, production equipment, pits, and gas pipeline will be wrapped and buried.
6. All permanent structures on-site will be painted a flat, non-reflective earthtone (Desert Brown) within 6 months of installation, excluding OSHA compliance facilities.

B. Off-well-pad production facilities.

No off-well-pad facilities, other than a gas pipeline, are anticipated.

5. LOCATION AND TYPE OF WATER SUPPLY

- A. Location and type of water supply: Water will be obtained from the Green River, probably in the SW/4 of Section 36-T6S-R21E. TXO will secure a valid water permit from the State of Utah for the proposed supply source.
- B. Method of transporting water: The water will be hauled in trucks by a certified water hauler. The exact route will depend on the source chosen; however, all travel will be on existing roads.
- C. If water well is to be drilled, so state: No water well is contemplated.

6. SOURCES OF CONSTRUCTION MATERIALS

- A. Show information either on map or by written description: It is anticipated that cuts on location will furnish sufficient quantities of material to construct a level location. Topsoil will be stockpiled on the northwest side of the pad for later use during rehabilitation of the disturbed areas. Excess excavated material from the pit will be stockpiled on the southeast side of the pit for use during rehabilitation. Please refer to Exhibit 7.
- B. Identify if from Federal or Indian Land: The affected land is federal and under the jurisdiction of the Bureau of Land Management.
- C. No additional materials, such as sand or gravel, are to be obtained and a minerals material application is not required. If such fill materials are needed, proper permits will be obtained from BLM if the material source is on federal public land.

7. METHODS OF HANDLING WASTE DISPOSAL

- A. Drill cuttings and drilling fluids will be contained and disposed of in the reserve pit.
- B. Produced fracing fluids will be directed to the reserve pit for evaporation.
- C. Sewage: A portable chemical toilet will be on location during drilling operations.
- D. Garbage and other trash will be placed in a trash bin and removed to a sanitary landfill upon completion. Burning will not be allowed.

- E. Protective Devices: The reserve pit will be fenced on three sides during drilling, and on the fourth side prior to the rig moving off location to protect animals. The flare pit will be fenced as part of the reserve pit. Fencing will be as prescribed in the 1978 Surface Operating Standards. If any oil is in the reserve pit, it will be removed or overhead flagging will be installed. A diversion ditch and/or compacted earthen berm will be constructed above the reserve pit (north side) to divert drainage to the east and south around the pad.
- F. Statement regarding proper cleanup when rig moves out: When the rig moves out, all trash and refuse will be removed from the location and hauled to an approved landfill. Burning will not be allowed. All pits will be filled after drying and the area restored as under Item 10 of this plan.
- G. Produced waste water will be confined to an unlined pit or a storage tank for a period not to exceed 90 days after first production. During the 90-day period, an application for approval of a permanent disposal method (unlined production pits) will be submitted to BLM for approval.

8. ANCILLARY FACILITIES

Identify all proposed camps and airstrips on a map as to their location, area required and construction methods: Camp facilities and use of airstrips are not required.

9. WELL SITE LAYOUT ATTACHMENT AND PROPOSED RIG LAYOUT

- A. Cross section of drill pad with cuts and fills: Refer to Exhibit 7.
- B. Location of mud tank, reserve pit, trash bin, pipe racks and other facilities; rig orientation, parking areas, access road: Refer to Exhibit 7.
- C. Statement regarding pit lining: The reserve pit will be unlined. However, if the subsurface structure should prove too porous or highly fractured, a 4-inch layer of bentonite or a commercial plastic liner will be placed in the pit to prevent excessive seepage and possible groundwater contamination. A BLM representative will be contacted prior to use of the pit if unlined so that the unlined pit can be inspected by BLM.

10. PLANS FOR RESTORATION OF SURFACE

- A. Backfilling, leveling, contouring, and waste disposal: Immediately upon completion of the well, the site will be cleared of all debris and materials not needed for production and the mouse and rat holes filled. Prior to backfilling, the reserve pit will be allowed to dry by evaporation and any cans, barrels, pipe or other debris will be removed. Cuttings, drilling muds, and similar spent chemicals directed to the reserve pit pursuant to Item 7 above will be buried as the pit is backfilled. The reserve pit will be reclaimed within 120 days from the date of well completion.
- B. All disturbed areas, including either areas of the pad not needed for production facilities or the entire location and access road if a dry hole, will be graded to an appearance consistent with the natural contours. Stockpiled topsoil will then be distributed evenly over these disturbed areas. The disturbed areas will be scarified by plowing or ripping to a depth of 12" and left rough in preparation for reseeding.
- C. Disturbed areas will be reseeded with an appropriate seed mix to be determined by BLM at the time restoration activities begin. Seed will be planted using a disc-type drill set 10" apart. Seed will be planted between one-half and three quarter inches deep. A drag or roller may be used to insure uniform coverage and compaction. Drilling will be done on contour. On slopes too steep for drilling, a "Cyclone" brand seeder or similar broadcast seeder will be used, using twice the recommended amount of seed per acre. Seed will then be covered to the prescribed depth by whatever means is practical.
- D. Seeding will be done from October 1 until ground freeze. If unsuccessful, additional seeding may be required. At such time as the well is P&A'd, a surface reclamation plan will be submitted to BLM via SRA to obtain additional seeding requirements and seed mixes.
- E. Timetable for commencement and completion of rehabilitation operations: Rehabilitation will commence when drilling operations are completed, approximately September 7, 1989 and will be finished within approximately one year. It is anticipated that seeding of the recontoured pad would be performed in the Fall of 1989 following pit backfill and recontouring operations.

11. SURFACE OWNERSHIP

The access road and the well pad are located on public lands managed by the BLM.

12. OTHER INFORMATION

- A. Topography, soil characteristics, geologic features, flora, fauna: The drill site is located in a relatively flat area on a bench above the Green River. A small dry playa lake is located just south and down slope from the drill site. Soil in the area is sandy loam. Vegetative cover is sparse, about 25% or less. Plant species in the area include greasewood, big sagebrush, slatbush, cheatgrass, and various other grasses and forbs. Local fauna include deer, antelope, and various birds and small mammals. No threatened or endangered species are known to occur in the area.
- B. Other surface-use activities include: Oil and gas production, placer mining, and livestock grazing.
- C. Proximity of water, occupied dwellings: The Green River surrounds the Horseshoe Bend area in which the drill site is located. The river is about 2200' southeast at the closest point.
- D. Archeological, historical, or cultural sites: An archeological survey will be conducted for the new access road and well pad and the results forwarded to the Vernal BLM Office. If any archeological, historical or cultural sites are discovered during operations, all operations affecting such sites will be suspended and the discovery reported promptly to BLM.
- E. Noxious weeds along the access road and on the wellsite will be controlled. If herbicides or pesticides are used, prior approval will be obtained from BLM for the specific chemical proposed via a Pesticide Use Proposal.
- F. BLM will be contacted between 24 and 48 hours prior to beginning construction activities at the site. BLM contacts are Byron Tolman and Jim Piani at (801) 789-1362.
- G. The drilling rig and/or other drilling equipment will not be stacked or stored on federal lands after the conclusion of drilling operations without BLM authorization. Any BLM authorization for such rig storage would only be a temporary measure until arrangements are made for storage at off-site commercial facilities.

13. LESSEE'S OR OPERATOR'S REPRESENTATIVES AND CERTIFICATION

- A. Name, address and phone number of the lessee's or operator's field representative who is responsible for assuring compliance with the approved surface use and operations plan.

Gary E. Wurdeman
District Drilling & Production Manager
TXO Production Corp.
1660 Lincoln Street
1800 Lincoln Center Building
Denver, Colorado 80264
(303) 861-4246 - Business
(303) 741-2517 - Residence

Comments regarding the content of this plan or arrangements for an on-site inspection should be directed to:

Charles K. Curlee
Environmental Manager
TXO Production Corp.
1660 Lincoln Street
1800 Lincoln Center Bldg.
Denver, Colorado 80264
(303) 861-4246 - Business
(303) 355-3297 - Residence

- B. All operations will be conducted in full compliance with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable NTL's. TXO Production Corp. is fully responsible for the actions of its subcontractors. Copies of the approved permit, including all conditions, will be furnished to TXO's field representative and to the dirt contractor (Surface Use Plan portion only) to insure compliance.
- C. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by TXO Production Corp. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 USC 1001 for the filing of a false statement.

DATE: June 14, 1989

NAME AND TITLE:

Gary E. Wurdeman

District Drilling & Production Manager

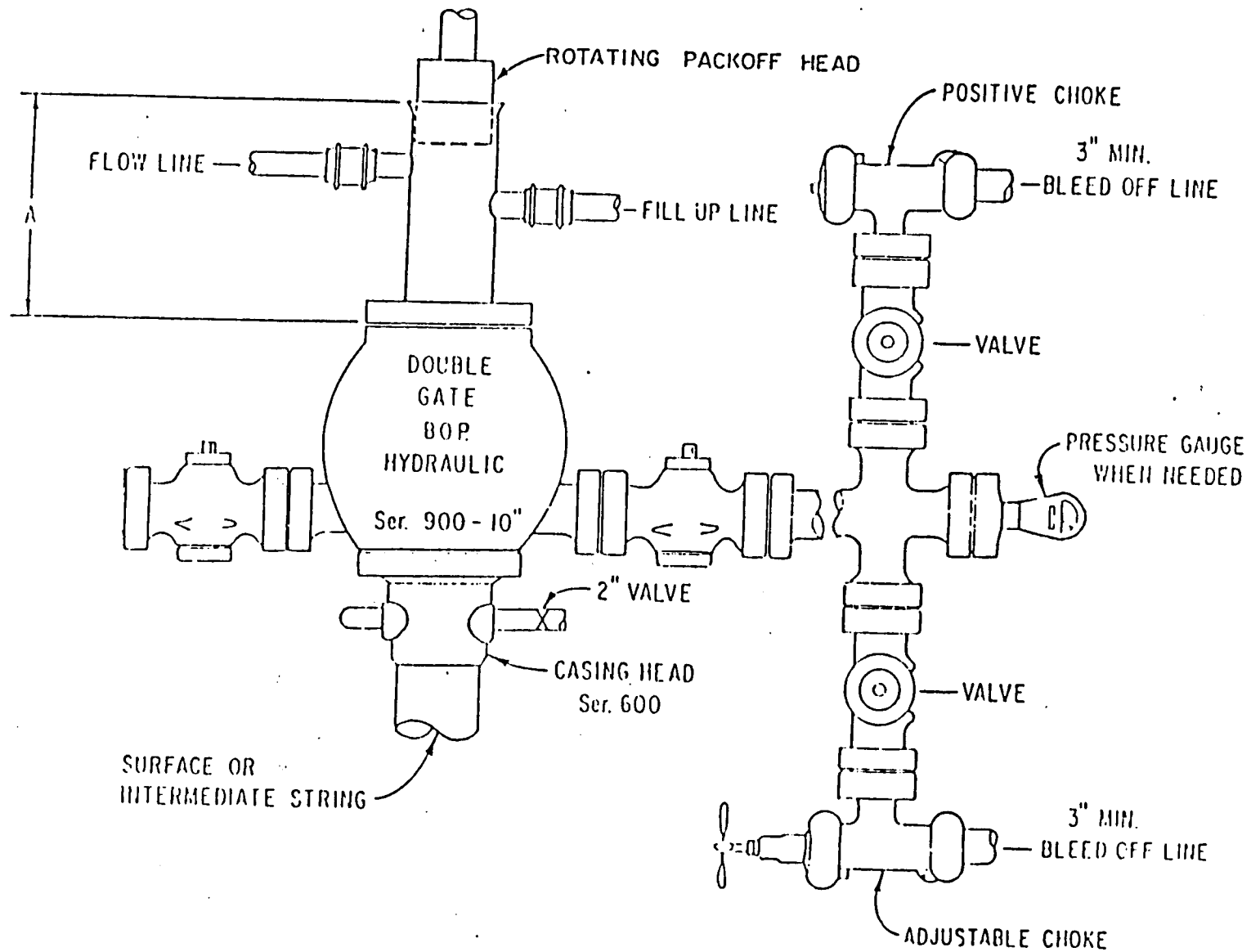


EXHIBIT I
 BLOWOUT PREVENTER DIAGRAM
 TXO PRODUCTION CORP.

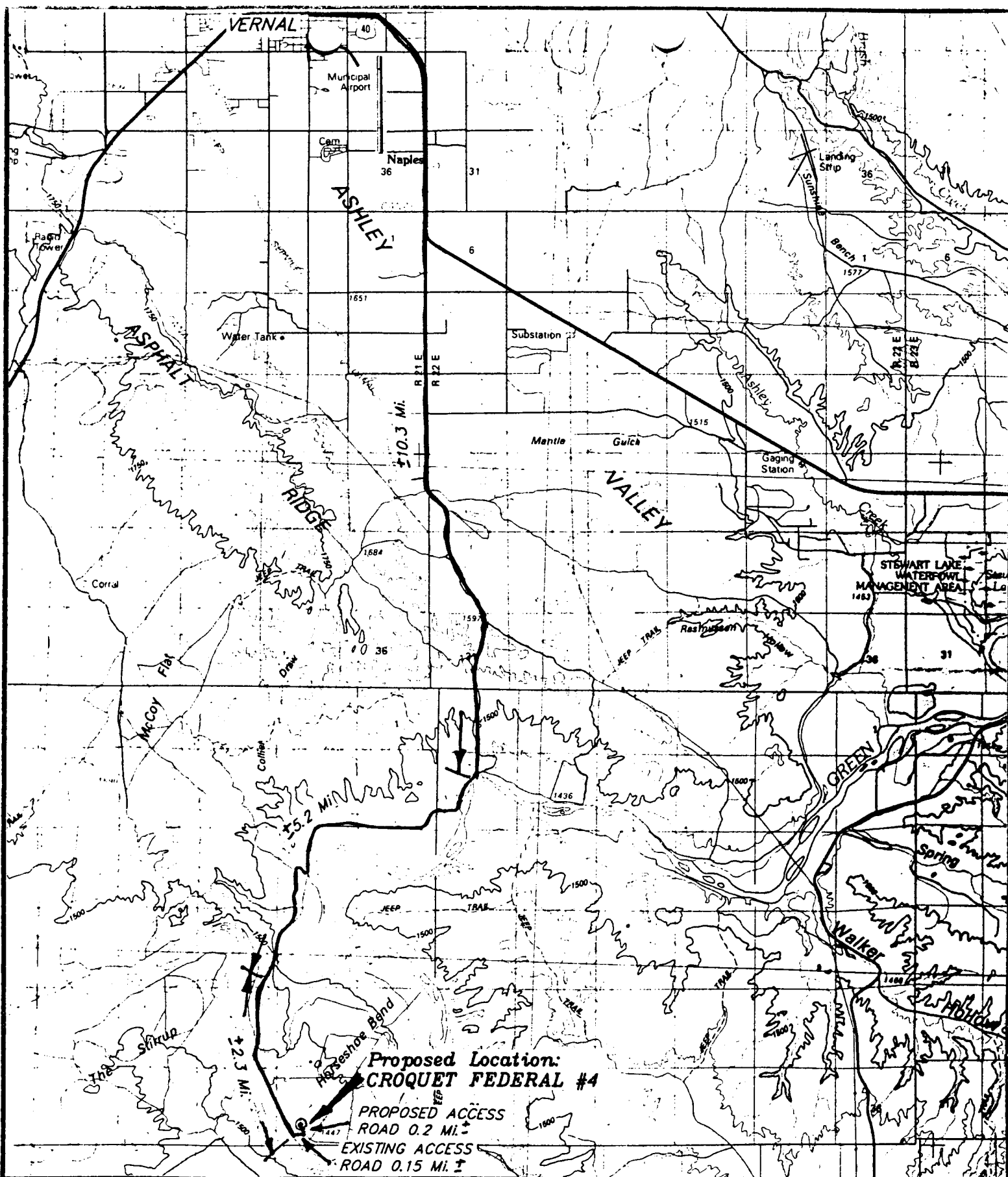


EXHIBIT 2

Access Route to Location



TXO PRODUCTION CORP.

CROQUET FEDERAL #4
SECTION 35, T6S, R21E, S.L.B.&M.

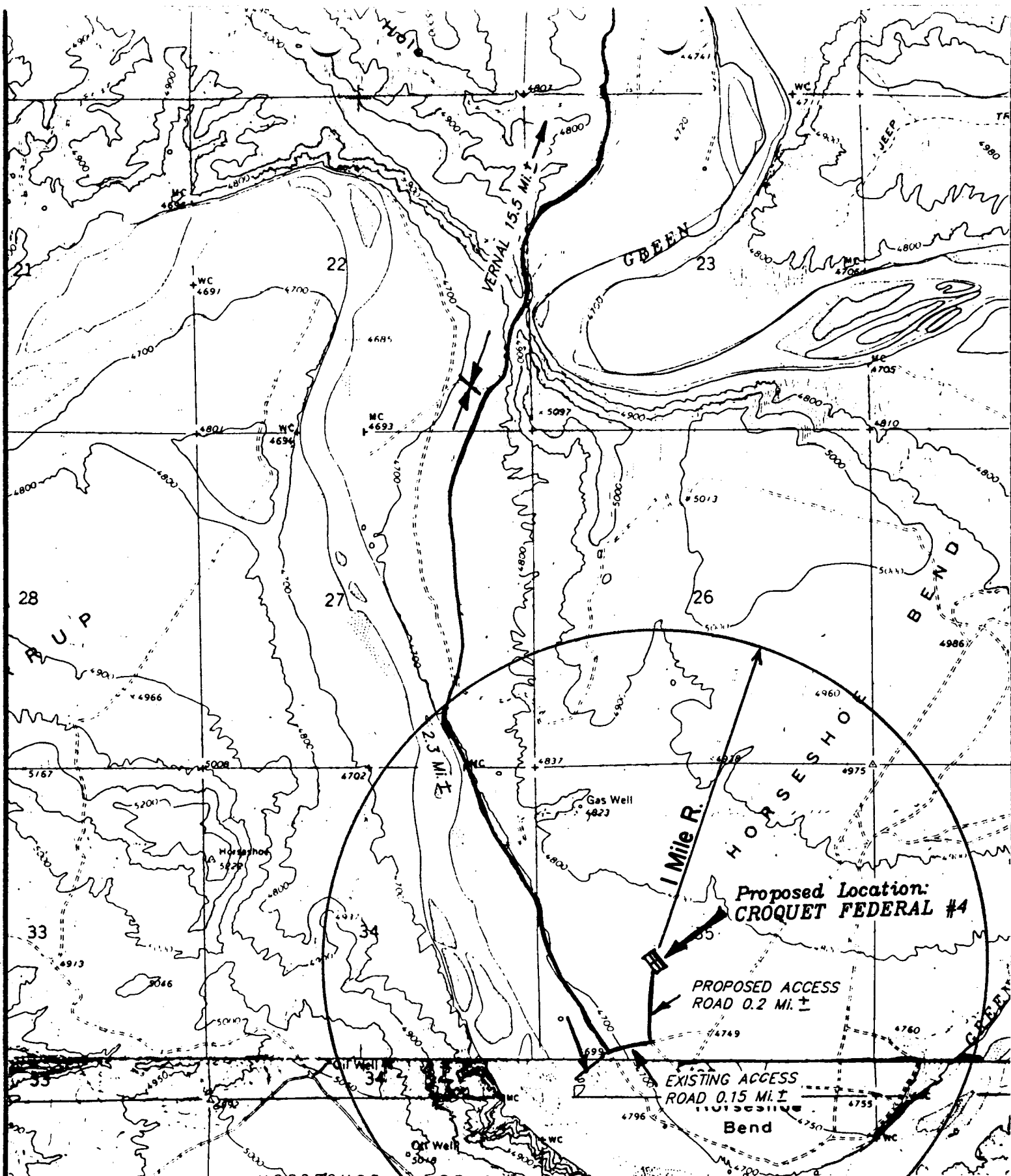


EXHIBIT 3

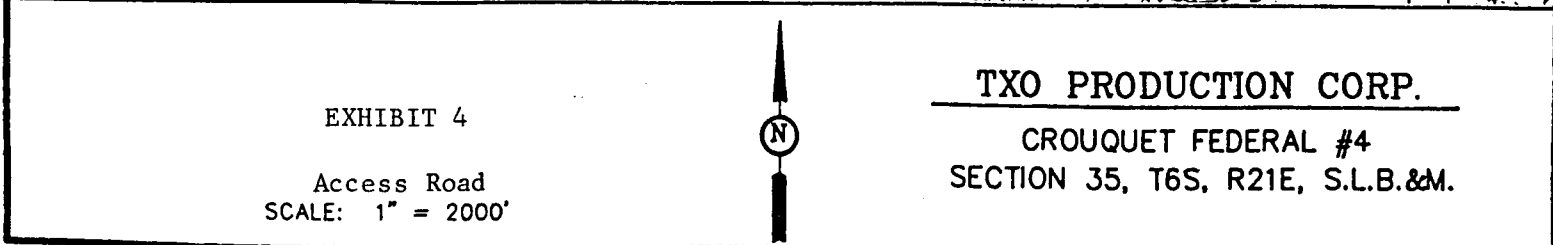
Existing Roads Within a One Mile Radius

SCALE: 1" = 2000'



TXO PRODUCTION CORP.

CROQUET FEDERAL #4
SECTION 35, T6S, R21E, S.L.B.&M.



Access Road
SCALE: 1" = 2000'



CROUQUET FEDERAL #4
SECTION 35, T6S, R21E, S.L.B.&M.

R21E

R22E
18

GREEN

19

24

25

CALIF
4885'GR
8945'

T
6
S

31

33
3450'

6

T
7
S

12

7

13

18

GULF
4809'GR
7068'

1 Mile R.

TXO
CHEV. Croquet Fed. - 3
4 Fed.
TXO
1- Croquet Fed.
MCLISH
7 State
TXO
Croquet Fed. - 4
2 Croquet Fed.
SNY
1-Bend
3520'
3530'



TXO PRODUCTION CORP.
DENVER DISTRICT

EXHIBIT 5
Existing Wells Within a One Mile Radius

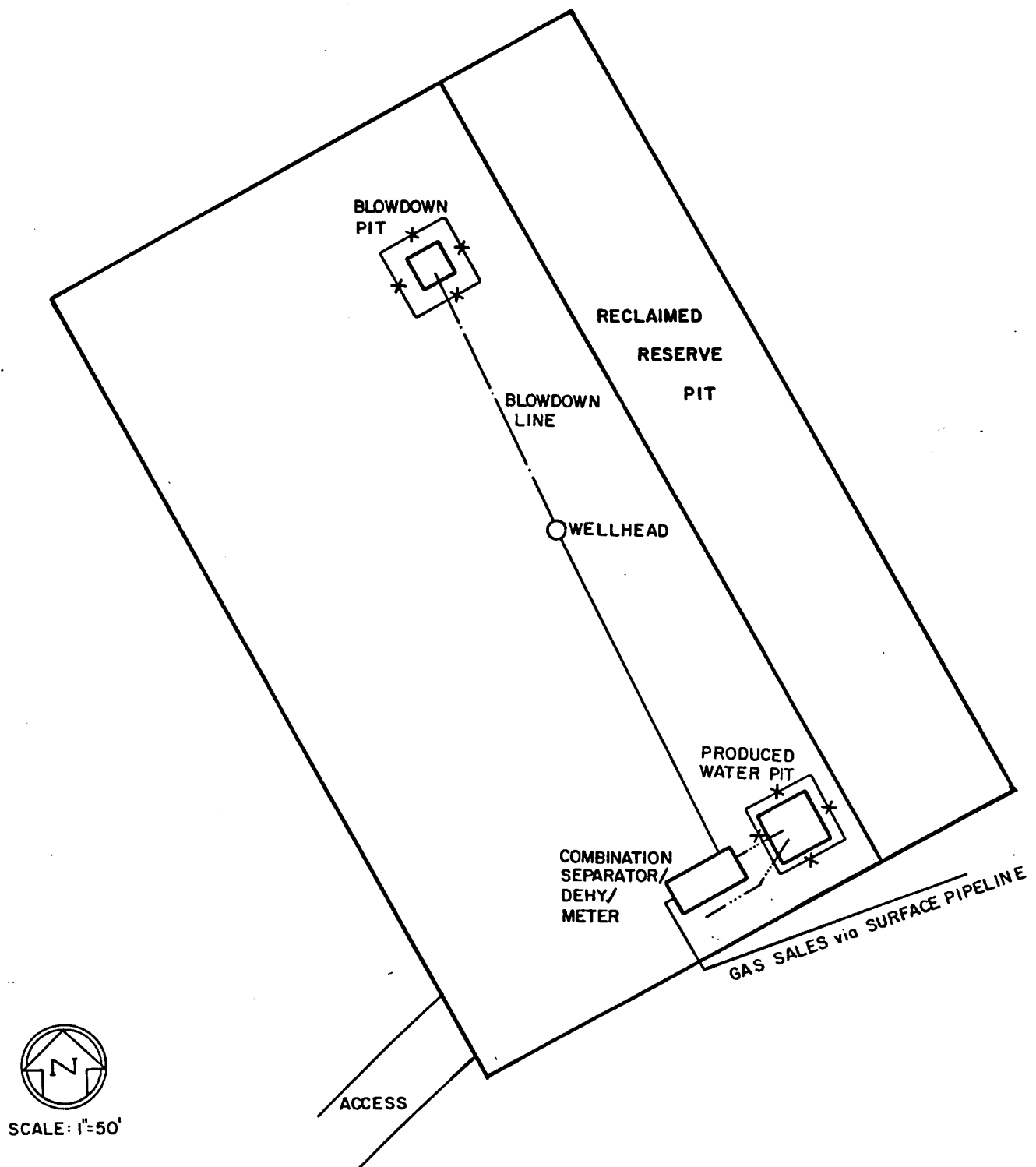
Croquet Federal #4
Section 35-T6S-R21E
Uintah County, Utah

Scale: 1"=4000'

June 14, 1989

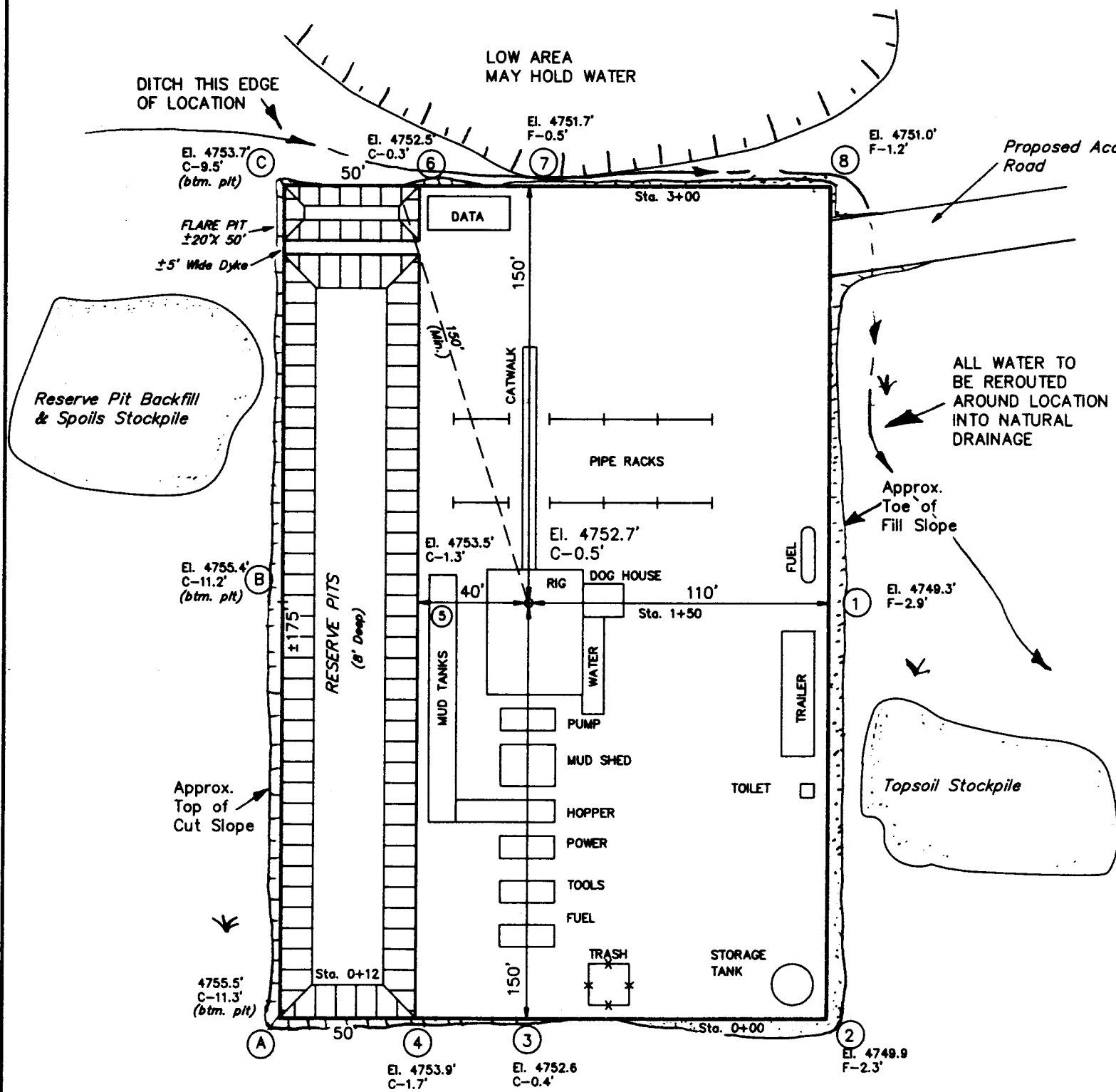
EXHIBIT 6
PRODUCTION FACILITIES

Croquet Federal #4
Section 35-T6S-R21E
Uintah County, Utah



- 1) Pits will be 10' x 10' x 6' deep and will be surrounded by fence.
- 2) Sacrificial magnesium anodes will be used, if necessary, to control corrosion.
- 3) All pipelines will be coated and wrapped, then buried.
- 4) A surface mounted high/low safety shutdown system will be installed.
- 5) The separator will be an ASME coded vessel.

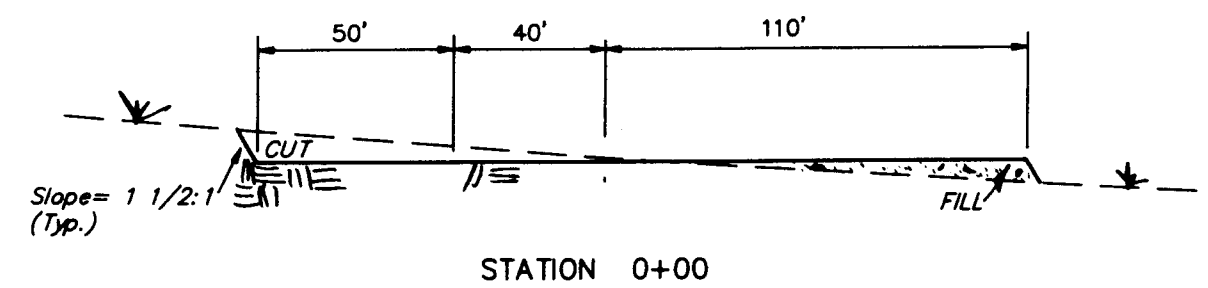
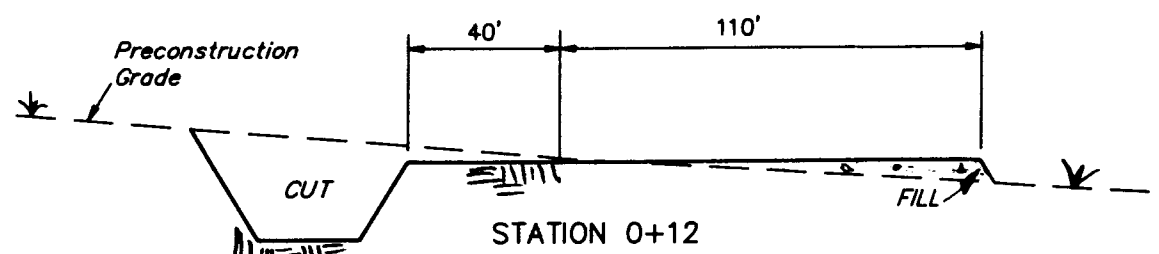
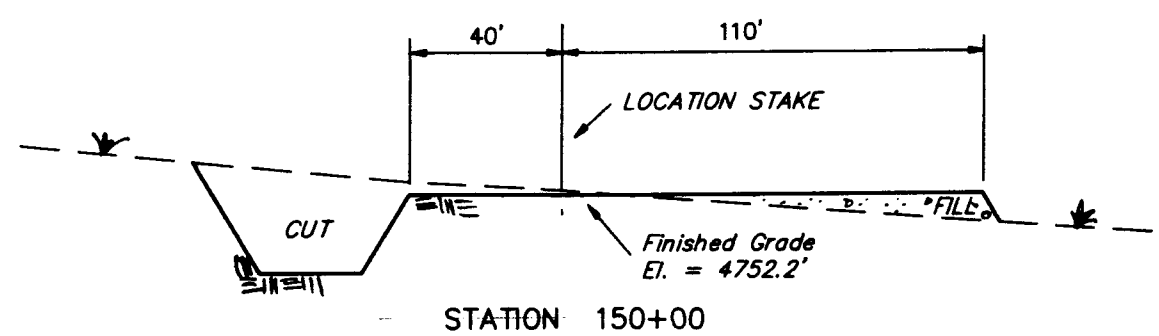
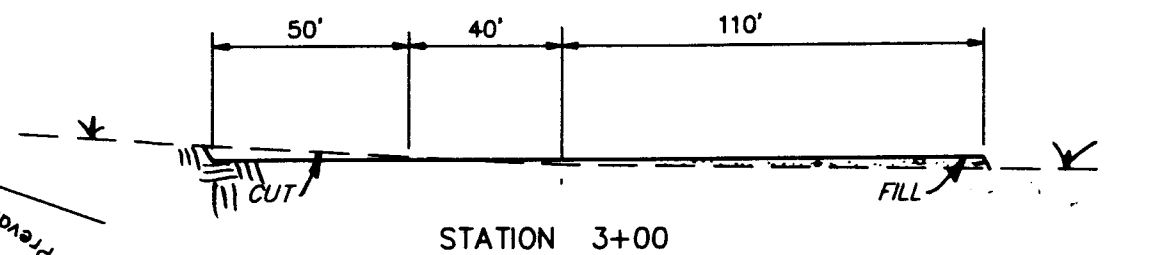
TXO PRODUCTION CORP.
LOCATION LAYOUT FOR
CROQUET FEDERAL #4
SECTION 35, T6S, R21E, S.L.B.&M.



SCALE: 1" = 50'
DATE: 6-6-89

X-Section Scale
1" = 20'
1" = 50'

TYP. LOCATION LAYOUT
TYP. CROSS SECTIONS



APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1,111 Cu. Yds.
Pit Volume (Below Grade)	= 3,243 Cu. Yds.
Remaining Location	= 1,020 Cu. Yds.
TOTAL CUT	= 5,374 CU.YDS.
FILL	= 2,029 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	= 3,238 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,732 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 506 Cu. Yds.

BEFORE THE BOARD OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES AND ENERGY
IN AND FOR THE STATE OF UTAH

IN THE MATTER OF THE PETITION OF TXO *
PRODUCTION CORPORATION FOR AN ORDER *
ALLOWING TWO PRODUCTION WELLS WITHIN *
ESTABLISHED 320 ACRE SPACING UNITS *
FOR THE UINTA FORMATION IN THE *
HORSESHOE BEND FIELD, UINTAH COUNTY, *
UTAH. *

**FINDINGS OF FACT,
CONCLUSIONS OF LAW,
AND ORDER**

Docket No. 85-044
Cause No. 145-8

Pursuant to the Petition of TXO Production Corporation, this cause came on for hearing before the Board of Oil, Gas & Mining, Department of Natural Resources and Energy, State of Utah, on Thursday, August 22, 1985, at 10 o'clock a.m. in the Board Room of the Division of Oil, Gas & Mining, 355 West North Temple, 3 Triad Center, Suite 301, Salt Lake City, Utah. The following Board members were present:

Gregory P. Williams, Chairman
James W. Carter
Richard B. Larsen
John M. Garr
E. Steele McIntyre
Charles R. Henderson

The Board was represented by Mark C. Moench, Esq., Assistant Attorney General for the State of Utah.

Appearances for the Division of Oil, Gas & Mining were made by:

Ronald J. Firth, Associate Director,
Oil & Gas

John R. Baza, Petroleum Engineer

The Division was represented by Barbara W. Roberts, Assistant Attorney General for the State of Utah.

The Petitioner, TXO Production Corporation was represented by John A. Harja of Hugh C. Garner & Associates, 310 S. Main Street, Suite 1400, Salt Lake City, Utah 84101.

Testimony was given by:

Ricky J. Taylor; Geologist, for Petitioner
Russ E. Gillis; Petroleum Engineer, for Petitioner
Thomas A. Mitchell; Attorney-at-law, for Petitioner

Mr. Assad M. Raffoul, Petroleum Engineer of the Utah State Office of the Bureau of Land Management was also present.

NOW, THEREFORE, the Board having considered the testimony adduced and the exhibits reviewed in said hearing, and being fully advised in the premises, now makes and enters the following:

FINDINGS OF FACT

1. Due and regular notice of the time, place and purpose of the hearing was given to all interested parties as required by law and the Rules and Regulations of the Board. Said parties are listed in Exhibit "B" attached to the Petition.

2. The Board has jurisdiction over the subject matter of the Petition and over all parties interested therein and has jurisdiction to make and promulgate the Order hereinafter set forth.

3. The Board entered its Order in Cause No. 145-2 to establish 320 acre spacing units for the Uinta formation within the following lands:

Township 6 South, Range 21 East, S.L.M.
Sections 25-27, 34-36

Township 6 South, Range 22 East, S.L.M.
Sections 28-33

Township 7 South, Range 21 East, S.L.M.
Sections 1-3, 10-12

Township 7 South, Range 22 East, S.L.M.
Sections 4-6, 8-10

These 320 acre drilling units are composed of the N1/2 and S1/2 of each governmental surveyed section.

4. The Order in Cause No. 145-2 further provided that well sites within the units would be located not less than 1000 feet from the North line and 1000 feet from the East line of the Northeast Quarter, and not less than 1000 feet from the South line and 1000 feet from the West line of the Southwest Quarter of each section, except in Section 2, Township 7 South, Range 21 East, S.L.M., and Sections 27 and 34 of Township 6 South, Range 21 East, S.L.M., where the permitted well locations were established as not less than 1000 feet from the North line and 1000 feet from the West line of the Northwest Quarter and not less than 1000 feet from the South line and 1000 feet from the East line of the Southeast Quarter of each such exception section.

5. The Order in Cause No. 145-2 further provided that the Board may by administration make exceptions to the prescribed well

locations in the event topographic and other structural considerations so require.

6. This Board entered its Order in Cause No. 145-3 to extend the provisions of the Order in Cause No. 145-2 to Section 4, Township 7 South, Range 21 East, S.L.M., Uintah County, Utah.

7. This Board entered its Order in Cause No. 145-4 to allow for the drilling of and simultaneous production from two wells in the Uinta formation within each 320 acre spacing drilling unit in Sections 31, 32 and 33 of Township 6 South, Range 22 East, S.L.M.

8. The Order in Cause No. 145-4 restricted the permitted well locations within Sections 31, 32 and 33 to the area not less than 500 feet from the boundaries of each surveyed quarter section.

9. The Order in Cause No. 145-4 provided that the Board may administratively make exceptions to the prescribed well locations in the event topographic and other structural variations so require.

10. This Board entered its Order in Cause No. 145-5 to allow, inter alia, two production wells per 320 acre spacing unit for the Uinta formation within Sections 28, 29, 30 of Township 6 South, Range 22 East, S.L.M. Said Order further provided that the permitted well locations should be located within each quarter Section, no closer than 500 feet from the boundaries of such quarter section, and that exception locations to the prescribed well locations may be granted administratively by the Division of Oil, Gas & Mining in the event topographic conditions so require.

11. This Board entered its Order in Cause No. 145-6 to extend the 320 acre Uinta formation spacing (established by Cause No. 145-2) to Section 32, Township 6 South, Range 21 East, S.L.M. Said Order also provided that exceptions to the prescribed well locations, may be granted administratively, (without Board hearing) in the event topography or other structural reasons so require.

12. The Uinta formation constitutes a common source of supply of gas under the following tracts:

Township 6 South, Range 21 East, S.L.M.
Sections 25-27, 32, 34-36

Township 7 South, Range 21 East, S.L.M.
Sections 1-4, 10-12

Township 7 South, Range 22 East, S.L.M.
Sections 4-6, 8-10

13. One well per each 320 acre drilling/spacing unit previously established on the lands described in paragraph 12 will not effectively, efficiently, or adequately drain the gas within the Uinta formation.

14. Economic evaluation of the proposed wells in the lands described in paragraph 12 indicates that the wells will very probably recover commercial amounts of gas, reach payout and provide a good rate of return to investors.

15. The Board has the authority, pursuant to Section 40-6-6(4) U.C.A. (1953 as amended) to modify previous orders to authorize additional wells on each previously established spacing/drilling unit.

16. To protect the correlative rights of the various interest owners, and to prevent waste, maximize recovery of the natural

resource, and prevent the drilling of unnecessary wells, the Board should enter an Order permitting two (2) wells to be drilled and produce simultaneously within each 320 acre Uinta formation drilling unit on the lands described in paragraph 12 above.

17. The permitted well locations within each 320 acre Uinta formation spacing unit should be within each government surveyed quarter section, one well per quarter section, no closer than 500 feet from the boundaries of each quarter section.

18. The Division of Oil, Gas and Mining, or successor agency, should have the right to administratively approve exceptions to the prescribed well locations if topographical, cultural, geological or other considerations so require.

CONCLUSIONS OF LAW

1. The Board has the authority, pursuant to Section 40-6-6(4) U.C.A. (1953 as amended) to modify previous orders to authorize additional wells on each previously established spacing/drilling unit.

2. An Order permitting (a) the drilling of additional wells on existing units as provided herein, and (b) the simultaneous production of two wells per 320 acre Uinta formation spacing/drilling unit will prevent waste, maximize recovery, prevent the drilling of unnecessary wells, and protect the correlative rights of interest owners.

Sufficient evidence now being available upon which to reach a decision, the Board issues the following:

ORDER

Based upon evidence presented covering the geology, ownership, reservoir characteristics and reserves of natural gas, and to protect correlative rights and maximize the recovery of gas, the Orders issued in Cause Nos. 145-2, 145-3, 145-6, and 145-7 are hereby amended to the extent necessary to authorize the following:

1. Two production wells are allowed per each 320 acre Uinta formation drilling unit on the following lands:

Township 6 South, Range 21 East, S.L.M.
Sections 25-27, 32, 34-36

Township 7 South, Range 21 East, S.L.M.
Sections 1-4, 10-12

Township 7 South, Range 22 East, S.L.M.
Sections 4-6, 8-10

2. The permitted well locations within each 320 acre drilling unit are within each government surveyed quarter section, one well per quarter section, at a point no closer than 500 feet from the boundaries of each quarter section;


3. The Division of Oil, Gas & Mining, or successor agency, may administratively approve exceptions to the prescribed well locations pursuant to Rule C3 of the General Rules and Regulations of the Board (or any duly promulgated replacement rule) if topographical, cultural, geological or other considerations so require;

4. The Board retains exclusive and continuing jurisdiction of all matters covered by this Order and of all parties affected

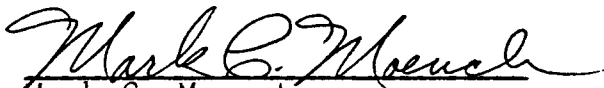
thereby, and particularly reserves exclusive and continuing jurisdiction to make further orders as appropriate and as authorized by statute and regulation.

DATED this 19th day of Sept., 1985.

STATE OF UTAH
BOARD OF OIL, GAS & MINING


Gregory P. Williams, Chairman

Approved as to form:


Mark C. Moench
Assistant Attorney General

CONFIDENTIAL

OPERATOR TXO Prod. Corp. DATE 6-26-89

WELL NAME Croquet Federal 4

SEC NESW 35 T 6S R 21E COUNTY Uintah

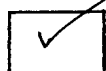
43-047-31868

API NUMBER

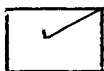
Federal

TYPE OF LEASE

CHECK OFF:



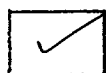
PLAT



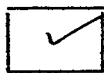
BOND



NEAREST
WELL



LEASE



FIELD



POTASH OR
OIL SHALE

PROCESSING COMMENTS:

Nearest well ok under Cause No. 145-8

Need Water Permit

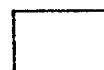
Cause No. 145-8 is for production from Uinta formation - see TD.

6-28-89 Reg. exc. to Cause No. 145-8. Well loc. is closer than 500' from
boundary of gdr. section / Received 7-5-89.

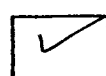
APPROVAL LETTER:

SPACING: ☐ R615-2-3

N/A
UNIT



R615-3-2



145-8 9-19-85
CAUSE NO. & DATE



R615-3-3

STIPULATIONS:

1. Water Permit

CONFIDENTIAL

PERIOD

EXPIRED

ON 11-27-90



TXO PRODUCTION CORP.

1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

July 3, 1989

RECEIVED
JUL 05 1989

Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center
Suite 350
Salt Lake City, UT 84180-1203

DIVISION OF
OIL, GAS & MINING

Re: Croquet Federal #4
NE/SW Section 35-T6S-R21E
Uintah County, Utah

Gentlemen:

TXO Production Corp. recently applied for a permit to drill the referenced well at a location 2132' FSL and 1879' FWL in Section 35-T6S-R21E. This location was chosen to avoid a large playa area that occupies the center of the NE/SW of Section 35. Since the playa area can hold water and become a shallow lake in wet years, the location was moved upslope to remain on dry ground.

TXO Production Corp. respectfully requests the Utah Division of Oil, Gas and Mining administratively approve this well location as an exception to Cause No. 145-8, pursuant to the provisions of Item 3 in that Order. As indicated in the above paragraph, the reason for this exception location is for topographical considerations.

If you have any questions or need additional information, please contact me at this office.

Very truly yours,

TXO PRODUCTION CORP.

Charles K. Curlee
Environmental Manager

CKC/gbp





Norman H. Bangerter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

July 7, 1989

TXO Production Corporation
1800 Lincoln Center
Denver, Colorado 80264

Gentlemen:

Re: Croquet Federal 4 - NE SW Sec. 35, T. 6S, R. 21E - Uintah County, Utah
2132' FSL, 1879' FWL

Approval to drill the referenced well is hereby granted in accordance with the Order of Cause No. 145-8 dated September 19, 1985, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.

Page 2
TXO Production Corporation
Croquet Federal 4
July 7, 1989

6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-047-31868.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

lcr
Enclosures
cc: Bureau of Land Management
D. R. Nielson
J. L. Thompson
WE14/1-2

RECEIVED
JUL 26 1989

56 63 46

Application No. _____

75-5348

76400

APPLICATION TO APPROPRIATE WATER
STATE OF UTAH

NOTE: The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

OIL, GAS & MINING

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

1. Irrigation ☐ Domestic ☐ Stockwatering ☐ Municipal ☐ Power ☐ Mining ☐ Other Uses ☒

2. The name of the applicant is TXO Production Corp. Attn: C.K. Curlee

3. The Post Office address of the applicant is 1800 Lincoln Center Bldg Denver, CO 80264

4. The quantity of water to be appropriated _____ second-feet and/or 20 acre-feet

5. The water is to be used for drilling from 7-5-89 to 7-5-90
(Major Purpose) (Month) (Day) (Month) (Day)

other use period _____ from _____ to _____
(Minor Purpose) (Month) (Day) (Month) (Day)

and stored each year (if stored) from _____ to _____
(Month) (Day) (Month) (Day)

6. The drainage area to which the direct source of supply belongs is _____
(Leave Blank)

7. The direct source of supply is* Green River
(Name of stream or other source)

which is tributary to Colorado River, tributary to _____

*Note.—Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

8. The point of diversion from the source is in Uintah County, situated at a point*
400' FSL, 200' FWL, SW/4 SW/4 Section 35-T6S-R21E, or 800' FSL, 1500' FEL,
Section 27-T6S-R21E. (Point of diversion used depends on river accessibility.)

(1) N. 400 FT. + E. 200 FT. FROM SW COR. SEC. 35, (2) N. 800 FT. + W. 1500 FT. FROM SE COR. SEC. 27, BOTH T6S,

*Note.—The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.

9. The diverting and carrying works will consist of Water will be removed from the source by
pump and hauled away by truck.

10. If water is to be stored, give capacity of reservoir in acre-feet _____ height of dam _____
area inundated in acres _____ legal subdivision of area inundated _____

11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:

_____ Total _____ Acres

12. Is the land owned by the applicant? Yes _____ No X If "No," explain on page 2.

13. Is this water to be used supplementally with other water rights? Yes _____ No X
If "yes," identify other water rights on page 2.

14. If application is for power purposes, describe type of plant, size and rated capacity. _____

15. If application is for mining, the water will be used in _____ Mining District at
the _____ mine, where the following ores are mined _____

16. If application is for stockwatering purposes, number and kind of stock watered _____

17. If application is for domestic purposes, number of persons _____, or families _____

18. If application is for municipal purposes, name of municipality _____

19. If application is for other uses, include general description of proposed uses for drilling
two gas wells (Croquet Fed. 3 & 4 and Badminton Fed. #1)

20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. W/2 Section 35-T6S-R21E

21. The use of water as set forth in this application will consume 20 second-feet and/or acre-
feet of water and none second feet and/ or acre feet will be returned to the natural
stream or source at a point described as follows: _____

EXPLANATORY

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

12. The land at the point of diversion is federal, managed by the BLM. TXO will obtain necessary permits for use of any BLM roads.

(Use page 4 if additional explanatory is needed.)

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described

C.K. Curlee

C.K. Curlee
Environmental Manager

*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH,
County of..... } ss

On the day of, 19....., personally appeared before me, a notary public for the State of Utah, the above applicant who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:

(SEAL)

Notary Public

STATE ENGINEER'S ENDORSEMENT


WATER RIGHT NUMBER: 45 - 5368

APPLICATION NO. T64060

1. July 3, 1989 Application received.
 2. July 20, 1989 Application designated for APPROVAL by RWL and KLJ.
 3. Comments:
-
-

Conditions:

This application is hereby APPROVED, dated July 25, 1989, subject to prior rights and this application will expire on July 25, 1990.


Robert L. Morgan, P.E.
State Engineer

SUBMIT IN ~~TRIPPLICATE~~
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐

GAS
WELL ☒

OTHER

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

TXO Production Corp. Attn: C.K. Curl

3. ADDRESS OF OPERATOR

1800 Lincoln Center, Denver, CO 80264

4. LOCATION OF WELL (Report location clearly and in accordance with State requirements.)

At surface
1879' FWL, 2132' FSL (NE/SW)
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approximately 15 miles So. of Vernal, Utah

10. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any)

1879'

16. NO. OF ACRES IN LEASE

635.15

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED, APPROX. 2130'
OR APPLIED FOR, ON THIS LEASE, FT. (Croquet Fed. #2)

19. PROPOSED DEPTH

3650'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4753' G.R.

22. APPROX. DATE WORK WILL START*

August 15, 1989

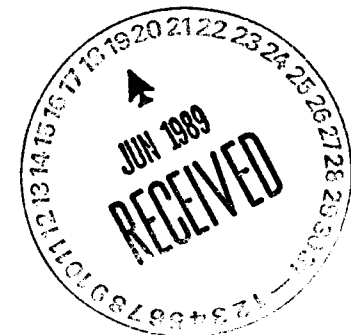
23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24.0#	350'	230 sacks
7 7/8"	4 1/2"	10.5#	3800'	250 sacks

All casing will be new K-55. Refer to attached Drilling Plan for program details.

As per Telephone conversation, between
Ed Foresman and Charlie Curloe, BHP
will be 1300 psi.



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED *Gary E. Wurdeman*
Gary E. Wurdeman

TITLE Dist. Drilling & Prod. Mgr

DATE June 14, 1989

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

ASSISTANT DISTRICT
MANAGER MINERALS

APPROVED BY *Charles B. Leavitt*
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE July 27, 1989

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPY

*See Instructions On Reverse Side

UTC80-9m26

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company TXO Productions Co. Well No. Croquet Fed. #4

Location NE/SW Sec. 35 T 6S R 21E Lease No. U-53862

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

A. DRILLING PROGRAM

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to the hydrologist of this office. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

Please be advised that the potential exists for abnormal pressure gradients to occur in the lower portion of the Uinta Formation. Borehole intercept depth for this zone is approximately 3080 feet. Therefore, sufficient mud volumes will be on hand to control the overpressure if encountered.

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc. and individual components shall be operable as designed.

The Vernal District Office shall be notified, with sufficient lead time, in order to have a BLM representative present while pressure testing.

3. Casing Program and Auxiliary Equipment

The District Office shall be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

Surface casing shall have centralizers on every fourth joint of casing starting with the shoe joint and up to the bottom of the cellar.

Usable water may be encountered at depths of + 50-300 ft., + 497-547 ft. and + 717-1142 ft. in the Duchesne River Formation and from + 3057-3207 ft. and + 3257-3555 ft. in the Uinta formation. Therefore, the resources will be isolated and/or protected via the cementing program for the production casing.

4. Mud Program and Circulating Medium

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the Authorized Officer. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight, unless prior approval is obtained from the Authorized Officer..

A cement bond log (CBL) shall be utilized to determine the top of cement (TOC) for the production casing.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Authorized Officer (AO).

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

A first production conference will be scheduled within 15 days after receipt of the first production notice.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

Pursuant to Onshore Oil and Gas Orders, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with State and local laws and regulations to the extent that such State and local laws are applicable to operations on Federal or Indian lands.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in Onshore Oil and Gas Order No. 3 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the AO.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried or anchored down from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

The spud date will be reported orally to the AO within 48 hours after spudding. If the spudding occurs on a weekend or holiday, the report will be submitted on the following regular work day. The oral report will be followed up with a Sundry Notice.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Pursuant to NTL-2B, with the approval of a District Engineer, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

A first production conference will be scheduled within 15 days after receipt of the first production notice.

operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An additional one (1) year approval period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hour approvals are necessary, please contact one of the following individuals:

Gerald E. Kenczka	(801) 781-1190
Petroleum Engineer	

Ed Forsman	(801) 789-7077
Petroleum Engineer	

To be determined by BLM upon completion of the well pad, produced waste water will be confined to the reserve pit or, if deemed necessary, a storage tank for a period not to exceed 90 days after first production.

If a plastic nylon reinforced liner is used, it shall be torn and perforated after the pit dries and before backfilling of the reserve pit.

The flare pit will be located a minimum of 30 feet from the reserve pit fence, and 100 feet from the bore hole on the downwind side of the location, between Points C and #6. All fluids will be removed from the pit within 48 hours of occurrence.

All pits will be fenced with a wire mesh fence and topped with at least one strand of barbed wire.

— The operator or his contractor shall contact the BLM Office at (801) 789-1362 between 24 and 48 hours prior to construction activities. Contact Ralph Brown or Tim O'Brien.

— The BLM Office shall be notified upon site completion prior to moving on the drilling rig.

DIVISION OF OIL, GAS AND MINING

API NO. 43-047-31868

SPUDDING INFORMATION

NAME OF COMPANY: TXO PRODUCTION CORPORATION

WELL NAME: CROQUETT FEDERAL #4

SECTION NESW 35 TOWNSHIP 6S RANGE 21E COUNTY UINTAH

DRILLING CONTRACTOR ST ENERGY CORPORATION

RIG # 3

SPUDDED: DATE 8/22/89

TIME 1:30 p.m.

HOW ROTARY

CONFIDENTIAL

DRILLING WILL COMMENCE

REPORTED BY CORY WEST

TELEPHONE # 303-861-4246

DATE 8/23/89 SIGNED TAS TAKEN BY: VLC

CROQUET FEDERAL
 LEASE NAME
 43-047-31828
 WELL NO. 4
 TEST NO. 1
 LEGAL LOCATION
 SEC. - TWP. - RANG.
 35-65-21E
 FIELD AREA
 HORSESHOE BEND
 COUNTY
 UTAH
 STATE
 UTAH DR
 3144.0 - 3209.0
 TESTED INTERVAL
 TXD PRODUCTION CORPORATION
 LEASE OWNER/COMPANY NAME

TXD PRODUCTION CORPORATION
 LEASE : CROQUET FEDERAL
 WELL NO. : 4
 TEST NO. : 1

TICKET NO. 65034800
 31-AUG-89
 VERNAL

CONFIDENTIAL

OIL AND GAS	
ONE	ONE
TWO	GLH
THREE	SLS
FOUR	
FIVE	
SIX	
SEVEN	
EIGHT	
NINE	
TEN	
1-7AS	
2- MORDEN	
3- FILE	

GAUGE NO: 649 DEPTH: 3206.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1539	1546.2			
B	INITIAL FIRST FLOW	62	66.5	30.0	29.4	F
C	FINAL FIRST FLOW	195	197.7			
C	INITIAL FIRST CLOSED-IN	195	197.7	60.0	60.4	C
D	FINAL FIRST CLOSED-IN	1539	1541.2			
E	INITIAL SECOND FLOW	204	215.9	60.0	60.0	F
F	FINAL SECOND FLOW	367	336.4			
F	INITIAL SECOND CLOSED-IN	367	336.4	120.0	120.2	C
G	FINAL SECOND CLOSED-IN	1539	1542.7			
H	FINAL HYDROSTATIC	1539	1517.8			

B C E F

A

D

G

H

650348-649

GAUGE NO: 4426 DEPTH: 3122.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	1489	1504.5			
B	INITIAL FIRST FLOW	38	27.0	30.0	29.4	F
C	FINAL FIRST FLOW	159	157.7			
C	INITIAL FIRST CLOSED-IN	159	157.7	60.0	60.4	C
D	FINAL FIRST CLOSED-IN	1508	1505.7			
E	INITIAL SECOND FLOW	178	182.2	60.0	60.0	F
F	FINAL SECOND FLOW	300	299.1			
F	INITIAL SECOND CLOSED-IN	300	299.1	120.0	120.2	C
G	FINAL SECOND CLOSED-IN	1498	1506.5			
H	FINAL HYDROSTATIC	1470	1478.6			

B C E F

A D G

650348-4426

EQUIPMENT & HOLE DATA

FORMATION TESTED: UINTAH "B"

NET PAY (ft): 46.0

GROSS TESTED FOOTAGE: 65.0

ALL DEPTHS MEASURED FROM: KELLY BUSHING

CASING PERFS. (ft):

HOLE OR CASING SIZE (in): 7.875

ELEVATION (ft): 4767.0 GROUND LEVEL

TOTAL DEPTH (ft): 3209.0

PACKER DEPTH(S) (ft): 3137, 3144

FINAL SURFACE CHOKE (in):

BOTTOM HOLE CHOKE (in): 0.750

MUD WEIGHT (lb/gal): 9.30

MUD VISCOSITY (sec): 81

ESTIMATED HOLE TEMP. (°F): 95

ACTUAL HOLE TEMP. (°F): 94 @ 3205.0 ft

TICKET NUMBER: 65034800

DATE: 8-26-89 TEST NO: 1

TYPE DST: OPEN HOLE

FIELD CAMP:

VERNAL

TESTER: RANDY RIPPLE

WITNESS: DAVID CRAIG

DRILLING CONTRACTOR:

SST ENERGY #3

FLUID PROPERTIES FOR
RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
MUD PIT	3.500 @ 68 °F	909 ppm
TOP OF FLUID	1.800 @ 68 °F	1969 ppm
MIDDLE OF FLUID	0.730 @ 68 °F	5151 ppm
BDITOM OF FLUID	0.460 @ 68 °F	8484 ppm
SAMPELR	0.460 @ 68 °F	8484 ppm
	@ °F	ppm

SAMPLER DATA

P_{sig} AT SURFACE: 180.0
 cu.ft. OF GAS: 0.140
 cc OF OIL:
 cc OF WATER: 2000.0
 cc OF MUD:
 TOTAL LIQUID cc: 2000.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): @ °F
 GAS/OIL RATIO (cu.ft. per bbl):
 GAS GRAVITY:

CUSHION DATA

TYPE	AMOUNT	WEIGHT

RECOVERED:

102' OF DRILLING MUD
 620' OF MUD CUT WATER

MEASURED FROM
TESTER VALVE

REMARKS:

TYPE & SIZE MEASURING DEVICE : LT-20 MANIFOLD					TICKET NO: 65034800
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
8-26-89					
0840					ON LOCATION, WAITED ON RIG TO
					PULL OUT OF HOLE
1147					PICKED UP TOOLS FROM DST #1
1248					RUN IN HOLE WITH TOOLS
1502	1/8BH				OPENED TOOL WITH A WEAK BLOW
1507					6" BLOW IN WATER
1512					8" BLOW IN WATER
1517					11" BLOW IN WATER
1522					13" BLOW IN WATER
1527					13" BLOW IN WATER
1532					16" BLOW IN WATER, CLOSED TOOL
1632	1/8BH				OPENED TOOL WITH 1" BLOW IN
					WATER
1637					3" BLOW IN WATER
1642					5" BLOW IN WATER
1647					7" BLOW IN WATER
1652					8" BLOW IN WATER
1657					9" BLOW IN WATER
1702					9 1/2" BLOW IN WATER
1707					10 1/2" BLOW IN WATER
1712					11 1/2" BLOW IN WATER
1717					12 1/2" BLOW IN WATER
1722					13" BLOW IN WATER
1727					13 1/2" BLOW IN WATER
1732					13 1/2" BLOW IN WATER, CLOSED
					TOOL
2135					DRAINED SAMPLER, PULLED TOP
					CHART, WAITED ON ORDERS
2302					BROKE DOWN AND LOADED TOOLS
					READ CHARTS
2352					JOB COMPLETED

TICKET NO: 65034800

CLOCK NO: 4203 HOUR: 12

GAUGE NO: 4426

DEPTH: 3122.0

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	27.0			
2	2.0	29.8	2.7		
3	4.0	43.1	13.4		
4	6.0	54.6	11.4		
5	8.0	64.0	9.5		
6	10.0	74.0	9.9		
7	12.0	83.2	9.3		
8	14.0	92.1	8.9		
9	16.0	101.0	8.9		
10	18.0	110.2	9.2		
11	20.0	118.8	8.6		
12	22.0	127.7	8.9		
13	24.0	136.1	8.4		
14	26.0	145.0	8.9		
15	28.0	151.7	6.6		
C 16	29.4	157.7	6.0		
FIRST CLOSED-IN					
C 1	0.0	157.7			
2	1.0	370.6	212.9	1.0	1.486
3	2.0	679.6	521.9	1.9	1.199
4	3.0	934.3	776.7	2.7	1.034
5	4.0	1101.9	944.3	3.5	0.924
6	5.0	1195.1	1037.5	4.3	0.840
7	6.0	1263.6	1105.9	5.0	0.770
8	7.0	1307.7	1150.0	5.6	0.718
9	8.0	1344.9	1187.2	6.3	0.671
10	9.0	1373.3	1215.6	6.9	0.630
11	10.0	1393.8	1236.2	7.5	0.595
12	12.0	1421.8	1264.1	8.5	0.538
13	14.0	1440.6	1282.9	9.5	0.491
14	16.0	1453.3	1295.7	10.4	0.453
15	18.0	1462.4	1304.7	11.2	0.420
16	20.0	1469.3	1311.6	11.9	0.393
17	22.0	1474.9	1317.2	12.6	0.368
18	24.0	1478.7	1321.0	13.2	0.347
19	26.0	1482.3	1324.6	13.8	0.329
20	28.0	1485.5	1327.8	14.3	0.312
21	30.0	1487.8	1330.1	14.9	0.297
22	35.0	1492.7	1335.1	16.0	0.265
23	40.0	1496.5	1338.8	17.0	0.239
24	45.0	1499.5	1341.9	17.8	0.218
25	50.0	1502.7	1345.0	18.5	0.201
26	55.0	1504.3	1346.6	19.2	0.186
D 27	60.4	1505.7	1348.0	19.8	0.172
SECOND FLOW					
E 1	0.0	182.2			

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
2	5.0	191.3	9.2		
3	10.0	211.0	19.7		
4	15.0	230.5	19.5		
5	20.0	247.8	17.3		
6	25.0	262.5	14.7		
7	30.0	268.4	5.9		
8	35.0	273.7	5.2		
9	40.0	279.1	5.4		
10	45.0	283.9	4.8		
11	50.0	289.2	5.3		
12	55.0	294.0	4.8		
F 13	60.0	299.1	5.1		
SECOND CLOSED-IN					
F 1	0.0	299.1			
2	1.0	477.2	178.1	0.9	1.977
3	2.0	676.2	377.1	1.9	1.668
4	3.0	900.4	601.3	2.9	1.486
5	4.0	1041.7	742.6	3.8	1.368
6	5.0	1151.0	851.9	4.7	1.275
7	6.0	1215.6	916.5	5.6	1.202
8	7.0	1272.0	973.0	6.5	1.137
9	8.0	1306.7	1007.6	7.3	1.085
10	9.0	1336.5	1037.4	8.2	1.039
11	10.0	1359.2	1060.2	9.0	0.998
12	12.0	1392.5	1093.4	10.6	0.926
13	14.0	1414.4	1115.3	12.1	0.868
14	16.0	1427.8	1128.7	13.6	0.819
15	18.0	1438.0	1138.9	15.0	0.776
16	20.0	1446.5	1147.4	16.3	0.738
17	22.0	1452.9	1153.8	17.6	0.705
18	24.0	1458.2	1159.1	18.9	0.674
19	26.0	1462.3	1163.2	20.1	0.647
20	28.0	1465.4	1166.4	21.3	0.622
21	30.0	1468.4	1169.3	22.5	0.600
22	35.0	1474.4	1175.3	25.1	0.551
23	40.0	1479.5	1180.4	27.6	0.510
24	45.0	1483.8	1184.7	30.0	0.475
25	50.0	1486.8	1187.7	32.1	0.445
26	55.0	1489.4	1190.3	34.0	0.419
27	60.0	1491.9	1192.8	35.9	0.396
28	70.0	1495.7	1196.6	39.3	0.357
29	80.0	1499.1	1200.0	42.2	0.326
30	90.0	1501.5	1202.4	44.8	0.300
31	100.0	1503.7	1204.7	47.2	0.277
32	110.0	1506.0	1206.9	49.3	0.258
G 33	120.2	1506.5	1207.5	51.3	0.241

REMARKS:

TICKET NO: 65034800

CLOCK NO: 2797 HOUR: 12

GAUGE NO: 649



















DEPTH: 3206.0

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	66.5			
2	2.0	75.7	9.2		
3	4.0	89.4	13.7		
4	6.0	99.5	10.1		
5	8.0	109.0	9.6		
6	10.0	119.6	10.6		
7	12.0	128.0	8.4		
8	14.0	137.6	9.6		
9	16.0	145.8	8.2		
10	18.0	155.1	9.2		
11	20.0	162.7	7.6		
12	22.0	170.5	7.8		
13	24.0	178.6	8.1		
14	26.0	186.2	7.6		
15	28.0	193.1	6.9		
C 16	29.4	197.7	4.6		
FIRST CLOSED-IN					
C 1	0.0	197.7			
2	1.0	340.9	143.2	1.0	1.488
3	2.0	580.9	383.2	1.9	1.197
4	3.0	837.4	639.7	2.7	1.038
5	4.0	1037.6	839.9	3.5	0.926
6	5.0	1166.4	968.7	4.3	0.838
7	6.0	1264.8	1067.1	5.0	0.769
8	7.0	1316.2	1118.5	5.6	0.718
9	8.0	1361.4	1163.7	6.3	0.672
10	9.0	1396.5	1198.8	6.9	0.629
11	10.0	1419.2	1221.5	7.5	0.595
12	12.0	1452.7	1255.0	8.5	0.537
13	14.0	1475.7	1278.0	9.5	0.492
14	16.0	1487.7	1290.0	10.4	0.453
15	18.0	1497.8	1300.1	11.2	0.420
16	20.0	1504.2	1306.5	11.9	0.393
17	22.0	1510.4	1312.7	12.6	0.368
18	24.0	1515.2	1317.5	13.2	0.347
19	26.0	1518.4	1320.7	13.8	0.329
20	28.0	1521.6	1323.8	14.3	0.312
21	30.0	1524.2	1326.5	14.8	0.297
22	35.0	1529.1	1331.4	16.0	0.265
23	40.0	1532.9	1335.2	16.9	0.239
24	45.0	1535.8	1338.1	17.8	0.218
25	50.0	1537.7	1339.9	18.5	0.201
26	55.0	1539.9	1342.2	19.2	0.186
D 27	60.4	1541.2	1343.5	19.8	0.172
SECOND FLOW					
E 1	0.0	215.9			

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
2	5.0	233.0	17.1		
3	10.0	254.0	21.0		
4	15.0	273.2	19.2		
5	20.0	290.9	17.7		
6	25.0	302.3	11.4		
7	30.0	307.2	4.9		
8	35.1	311.6	4.3		
9	40.0	316.2	4.6		
10	45.0	321.7	5.5		
11	50.0	326.3	4.6		
12	55.0	331.6	5.3		
F 13	60.0	336.4	4.8		
SECOND CLOSED-IN					
F 1	0.0	336.4			
2	1.0	497.0	160.6	1.0	1.961
3	2.0	707.9	371.5	2.0	1.661
4	3.0	919.2	582.8	2.9	1.495
5	4.0	1065.7	729.3	3.8	1.373
6	5.0	1183.6	847.2	4.7	1.275
7	6.0	1255.3	918.9	5.6	1.203
8	7.0	1315.5	979.1	6.5	1.141
9	8.0	1355.3	1018.9	7.3	1.086
10	9.0	1382.0	1045.6	8.2	1.039
11	10.0	1405.8	1069.4	9.0	0.996
12	12.0	1434.6	1098.2	10.6	0.926
13	14.0	1453.5	1117.1	12.1	0.868
14	16.0	1466.9	1130.5	13.6	0.819
15	18.0	1477.3	1140.9	15.0	0.776
16	20.0	1483.6	1147.2	16.3	0.738
17	22.0	1489.4	1153.0	17.7	0.704
18	24.0	1493.9	1157.5	18.9	0.674
19	26.0	1497.0	1160.6	20.2	0.647
20	28.0	1500.6	1164.2	21.3	0.623
21	30.0	1503.6	1167.2	22.4	0.600
22	35.0	1509.0	1172.6	25.1	0.551
23	40.0	1514.7	1178.3	27.6	0.510
24	45.0	1518.6	1182.2	29.9	0.475
25	50.0	1521.5	1185.1	32.1	0.445
26	55.0	1524.7	1188.3	34.0	0.419
27	60.0	1527.4	1191.0	35.9	0.396
28	70.0	1531.3	1194.9	39.3	0.357
29	80.0	1534.1	1197.7	42.2	0.326
30	90.0	1536.8	1200.4	44.8	0.300
31	100.0	1539.4	1203.0	47.2	0.277
32	110.0	1541.4	1205.0	49.3	0.258
G 33	120.2	1542.7	1206.3	51.3	0.241

REMARKS:

TICKET NO. 65034800

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	2567.0	
3		DRILL COLLARS.....	6.500	2.375	465.9	
50		IMPACT REVERSING SUB.....	6.500	2.875	1.0	3019.0
3		DRILL COLLARS.....	6.500	2.375	88.5	
5		CROSSOVER.....	6.375	2.500	0.8	
13		DUAL CIP SAMPLER.....	5.000	0.750	7.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	3120.0
80		AP RUNNING CASE.....	5.000	2.250	4.1	3122.0
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	2.8	
70		OPEN HOLE PACKER.....	7.000	1.530	5.8	3137.0
70		OPEN HOLE PACKER.....	7.000	1.530	7.4	3144.0
20		FLUSH JOINT ANCHOR.....	5.750	3.500	24.0	
5		CROSSOVER.....	6.125	2.750	0.6	
3		DRILL COLLARS.....	6.500	2.375	31.5	
5		CROSSOVER.....	5.750	2.250	1.0	
20		FLUSH JOINT ANCHOR.....	5.750	3.500	2.0	
81		BLANKED-OFF RUNNING CASE.....	5.750		4.1	3206.0
TOTAL DEPTH					3209.0	

EQUIPMENT DATA



ROCKY MOUNTAIN GEO-ENGINEERING CO.

WELL SITE GEOLOGY - MUD LOGGING

2450 INDUSTRIAL BLVD.

PHONE (303) 243-3044

GRAND JUNCTION, COLORADO 81505

RECEIVED
SEP 08 1989

DIVISION OF
OIL, GAS & MINING

COMPANY TXO PRODUCTION CORP.

WELL CROQUET FEDERAL # 4

FIELD HORSESHOE BEND

ELEVATION GL: 4753' KB: 4767.5'

LOCATION NE SW SEC 35 T6S R21E

COUNTY UINTAH

STATE UTAH

DRILLING FLUID WATER/LSND

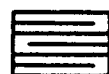
DEPTH LOGGED FROM 2500' TO 3650'

DATE LOGGED 8/24/89 - 8/28/89

ENGINEERS

STEVEN M. THIBODEAUX

CONFIDENTIAL



SHALE



DOLOMITE



COAL



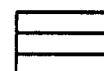
SANDSTONE



CHERT



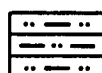
ANHY-GYP



LIMESTONE



SALT



SILTSTONE



DTG - DOWN TIME GAS
DST - DRILL STEM TEST
SLM - STEEL LINE MEAS.
LAT - LOGGED AFTER TRIP
WOB - WEIGHT ON BIT
RPM - REVOLUTIONS/MIN.
SPM - STROKES/MIN.
PP - PUMP PRESSURE
O - DEVIATION

TG - TRIP GAS
CG - CONNECTION GAS
NB - NEW BIT
NR - NO RETURNS
CO - CIRCULATE OUT
NS - NO SAMPLE
RR - RERUN
CB - CORE BIT
O SHOW REPORT

DRILLING RATE IN
MIN/5 FT

LITHOLOGY

INTER-
PRETIVE

DEPTH

PERCENT-
AGE

OIL
SHOW
TF G

CHROMATOGRAPH HYDROCARBONS IN PPM

M=1000 PPM

TOTAL GAS --- METHANE ---

ETHANE
PROPANE ---

BUTANE ---
PENTANE ---

REMARKS

WT

VIS

WL

CKE

PH

5 10 15 20
8 5/8" CASING SET AT 345'
NB # 2 7/8 STC F3H
IN AT 345'

2500

50

2600

100 600 1100 1600 2100 2600 3100
10M 60M 110M 160M 2M 12M 1M 6M

CG

CG

CG

CG

RMEC UNIT #38 RIGGED UP AND
ON LOCATION 8:00 PM, 8/24/1989
DRILLING CREW CATCHING 30'
SAMPLES FROM 2500'

DRILLING WITH WATER - BEGIN
MUDDING UP @ 2500'

SH lt-dkan lt-dkgy rdornq occ
qybrn, blkgy-sbbky, frm-m hd,
sbwxy, m-n calc, loc v slty/
sdy, arda to arg sltst/ss ip
occ sl bentic

SS lt-mgy trns1 ltan mott qy-
brn, vf-occ m gr, ang-sbrd, p
srt, fri-m hd, w cmt, calc, loc

WOB 80
RPM 80
PP 1000
SPM 100

WOB 30/35
RPM 80
PP 1000
SPM 100

50
0-1°

2700

50

2800

CARBIDE LAG
15 MIN @ 100SPM

50

2900

50

3000

CG

CG

CG

CG

CG

CG

CG

CG

CG

CG

CG

CG

CG

SH lt-dkgn gygn lt-mgy gybrn
rdornq yelornq,blky-sbblky,
frm-m hd,sbwx ip,m-n calc,
loc v slty/sdy,occ grdg to
arg sltst/ss,bentic ip

LS lt-mgy orngbrn trns1 gybrn
micxln,m-v hd,brit,dns,loc
v arg,grdg to calc sh/sltst
ip,occ dul yel-yelbrn min
flor w/no cut or stn

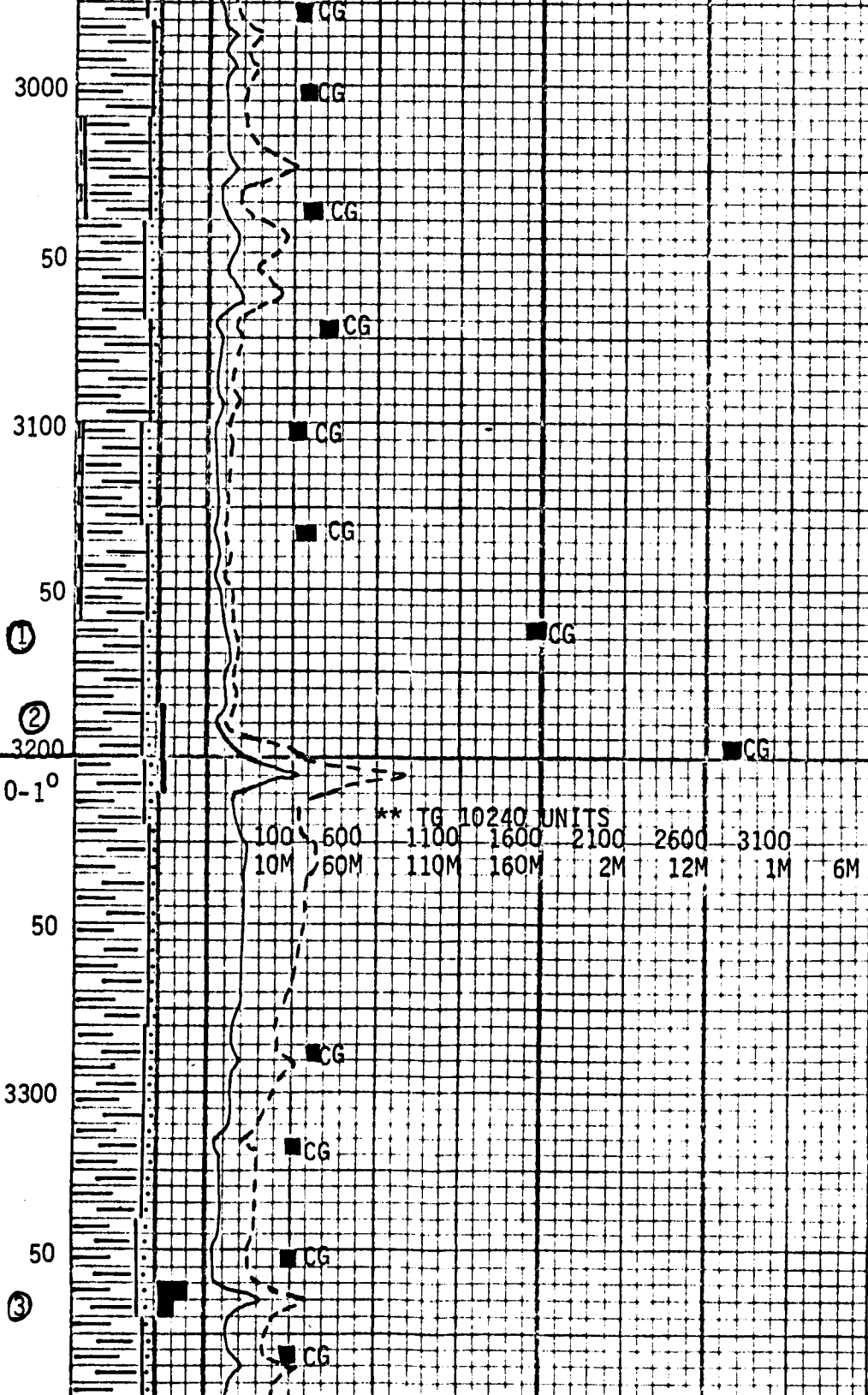
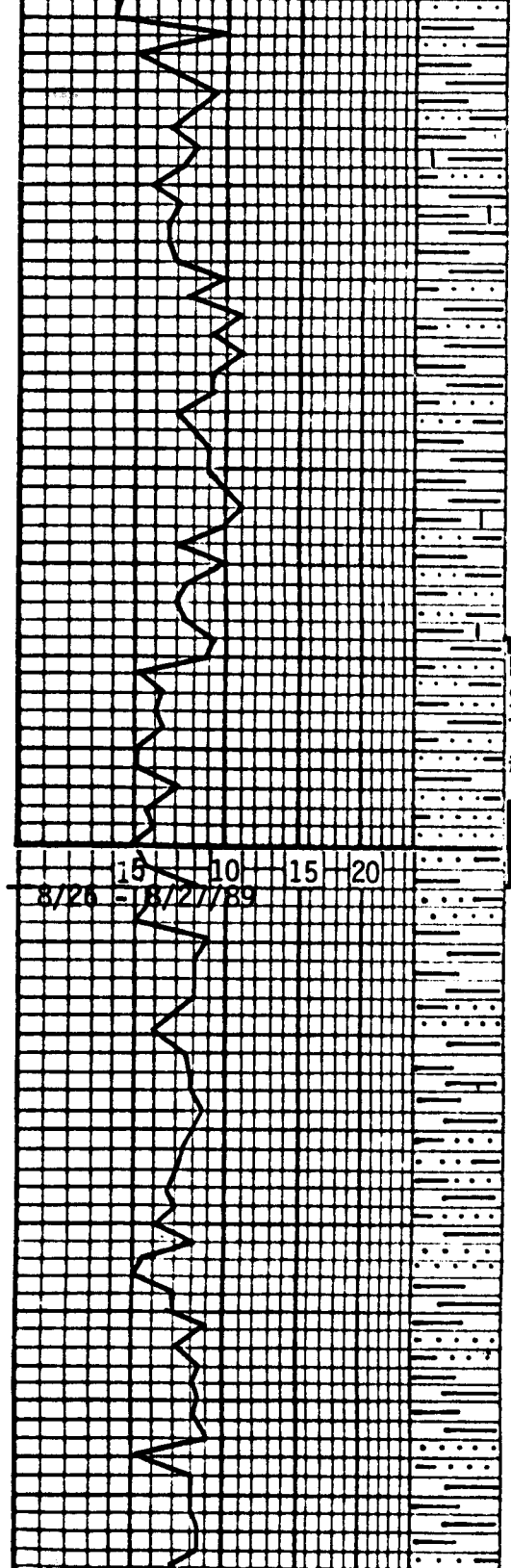
SS trns1 ltgy gy wh mott,vf-
m gr,occ crs gr-lse,ang-sbrd,
frm-m hd,v p srt,m-w cmt,
calc,arg-hemic ip,occ pyr-
mic-arg-glauc incl,tt,n vis
Ø,NFSOC

SH lt-dkgn lt-dk rdornq,occ
gy gygn gybrn,blky-sbplty,s
frm-m hd,brit,sbwx ip,loc
v slty-sdy,mod-n calc,pyric-
glaucic-hemic ip,occ grdg
to arg sltst/ss

9.0 3A 12 2/32 9.5
CL 300 Ca TR PV 11 YP 4

SS trns1 lt-mgy gybrn ltgn,m-
vf gr,occ crs gr-lse,ang-
sbrd,v p srt,m-w cmt,pred
calc,arg mtrx ip,loc abnt
glauc-pyr-arg incl,tt,hd,p-
n vis Ø,NFSOC

LS gybrn lt-dkgy mic-crsxln,
brit,dns,hd,occ sl-v arg,
slty/sdy ip,occ gran,loc dul
yel-yelbrn flor w/no cut



LS gybrn lt-dkgy mic-crsxln,
brit,dns,hd,occ sl-v arg,
slty/sdy ip,occ gran,loc du
yel-yelbrn flor w/no cut

SS wh lt-mgy gybrn occ rdorng,
vf-m ar,crs-lse-ang ip,sbrd-
sbang,m-p srt,fri-m hd,w cmt
pred calc,occ arg-hemic-cmt,
pye-glauc incl ip,p-n vis Ø,
NFSOC 75% qtz grns

SH lt-dkgn m-dk rdorng rdbn
mar occ yelbrn,gy ip,blky-
sbbky,frm-m hd,m-n calc,loc
v slty/sdy,occ glaucic-hemic
sl pyric,grdg to arg ss ip

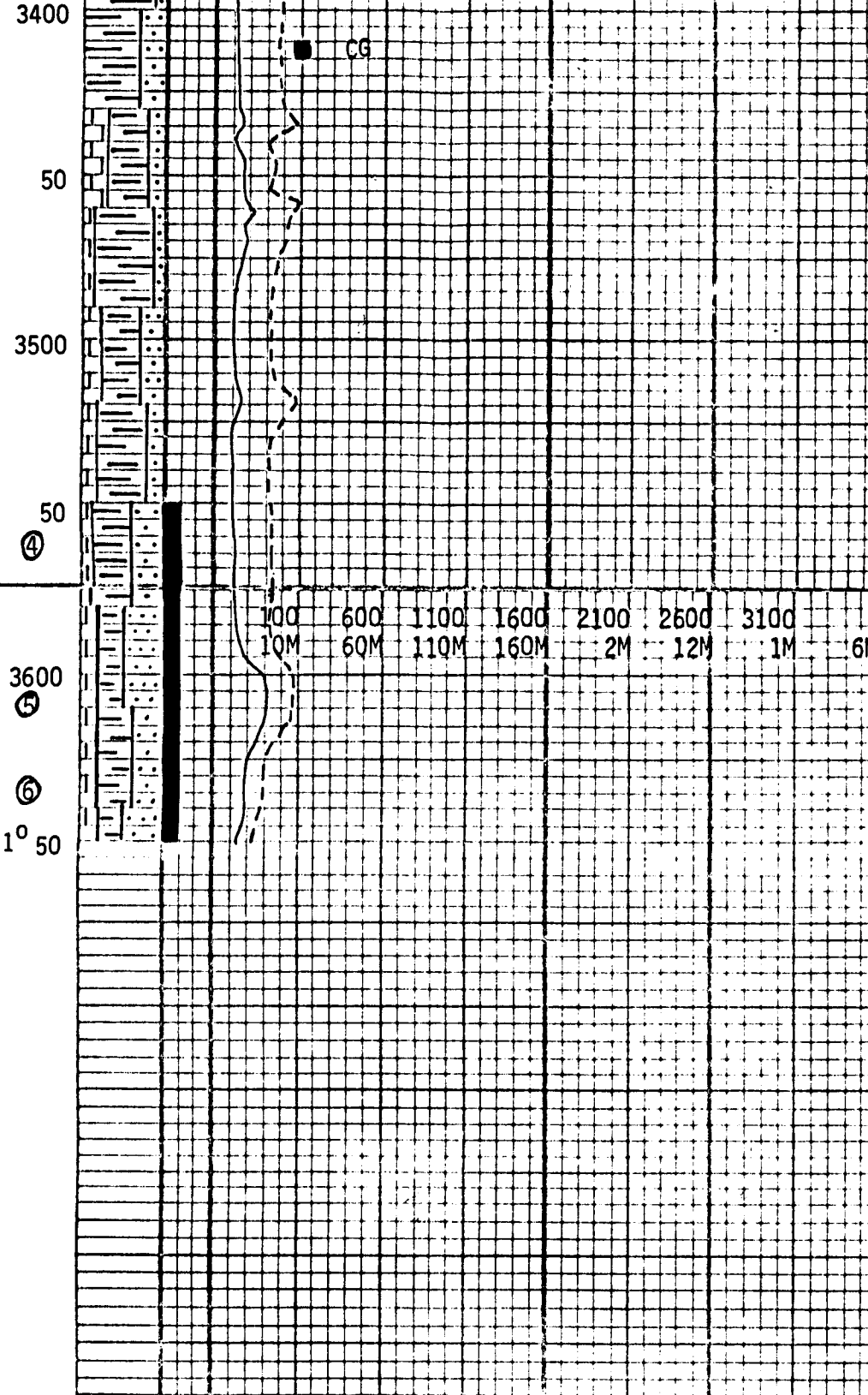
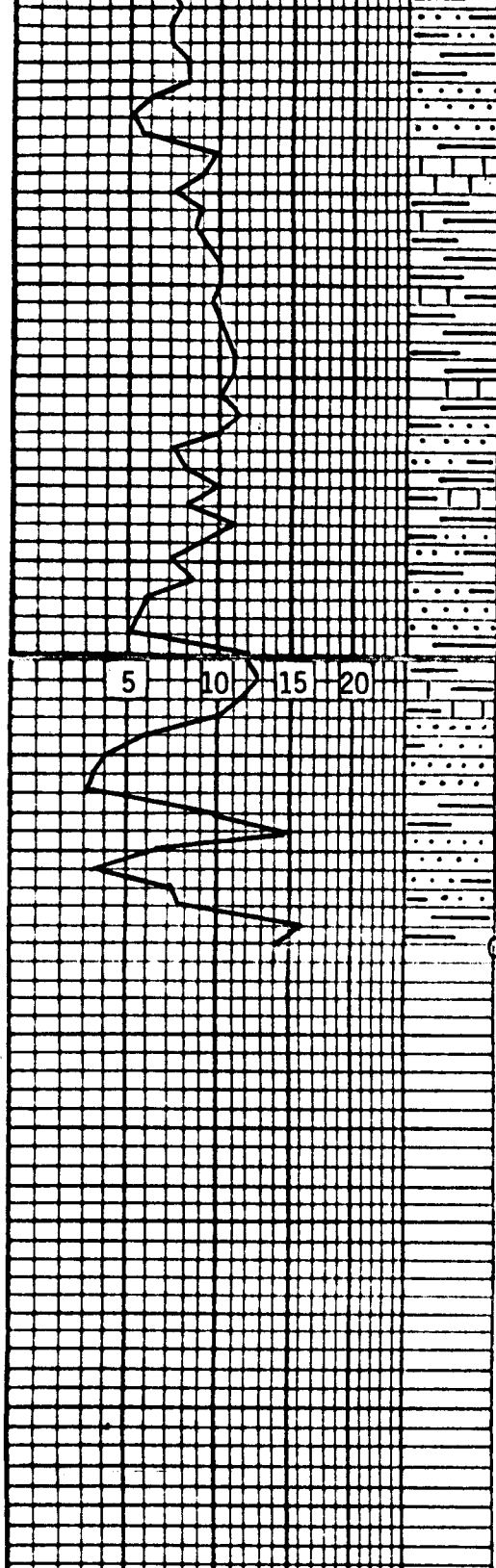
SS wh trns1,f-m gr,sbrd-rd,m-
w srt,fri,m-w cmt,calc,p vis
Ø,occ v lt stn,mod yel flor
w/yel-yelgn cut,90& qtz grns

TOOH FOR DST # 1 @ 3211'
STRAP DEPTH CORRECTION TO 3209'
TG BEFORE DST - 7840 UNITS

SH lt-dkgn lt-mgy gybrn rdbn
orngbrn gygn,blky-sbbky,sl
sft-m hd,brit ip,m-n calc,
loc v slty-sdy,v lmy ip,occ
grdg to arg ls-ss-sltst

9.2 39 9.6 2 9.5
CL 300 Ca TR PV 12 YP 9

SS pred wh trns1 ltbrn,f-m gr,
sbang-sbrd,m-w srt,fri,m cmt
calc,sln,fr-gd intgran Ø,m-
bri yel flor ip w/fst yel-
velan strma cut



LS lt-dkgy lt-mbrn crm gybrn,
blky,mi-crppln,dns,hd,brit,
occ sl arg/sdy,occ dk brn
stn,dul yel-yelbrn flwr w/
no vis cut

SS trns1 wh ltgy ltbrn,vf-m gr
sbang-sbrd,p-m srt,fri-m hd,
p-m cmt,calc,fr-gd intgranØ
5-10% dk-m brn stn,2% dul-
m bri yelgn flwr w/ v fst
yelgn-blgn strmg cut

SS trns1 wh ltgy mott,vf-f gr,
sbagn-sbrd,p-w srt,fri,p-m
cmt,calc,fr-gd intgran Ø,occ
dk-m brn stn,2% m bri yelgn-
blwh flwr,fst yelbl-blgn cut
when crushed

TOOH FOR LOGS AT 3650'
UNIT RELEASED 8/28/89 AFTER
COMPLETING E-LOG RUN

SEP 19 1989

OPERATOR TXO Production Corp.
ADDRESS 1660 Lincoln St., Suite 1800
Denver, CO 80264OPERATOR ACCT. NO. N 1580DIVISION OF
OIL, GAS & MINING

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11014	43-047-31868	Croquet Federal #4	NE/SW	35	XS 6S	21E	Uintah	8-22-89	9-13-89
WELL 1 COMMENTS: TXO Production Corp. spudded the Croquet Federal #4 @ 2:00 p.m. on 9-13-89. 12 $\frac{1}{4}$ " hole was drilled to 345' in which 8 5/8" csg was set and cemented with 225 sxs. Cement did circulate.											
CONFIDENTIAL											
WELL 2 COMMENTS: Federal - Lease Field - Horseshoe Bend Unit - N/A Proposed zone - GRV - Completed Unit A (Entity added 9-29-89) JCR											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

Cory West
Signature Cory West
Petroleum Engineer 9-15-89
Title Date
Phone No. 303 , 861-4246

TXO

TXO PRODUCTION CORP.1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

RECEIVED
SEP 20 1989DIVISION OF
OIL, GAS & MINING

September 15, 1989

State of Utah
Dept. of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

RE: Bridle Federal #4
Croquet Federal #3
Croquet Federal #4

Dear Sirs:

Please find attached Form 9-330 on the above referenced wells recently drilled and completed in the Horseshoe Bend Field, Uintah County, Utah. It is respectfully requested to keep all information CONFIDENTIAL.

Please call me if there are any questions or concerns.

Sincerely,

TXO PRODUCTION CORP.



Cory West
Petroleum Engineer

CW/jp



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other <input type="checkbox"/>	1b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other <input type="checkbox"/>	2. NAME OF OPERATOR TXO Production Corp.	3. ADDRESS OF OPERATOR 1660 Lincoln St., Suite 1800, Denver, CO 80264	5. LEASE DESIGNATION AND SERIAL NO. U-53862	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	7. UNIT AGREEMENT NAME	8. FARM OR LEASE NAME Croquet Federal	9. WELL NO. #4	10. FIELD AND POOL, OR WILDCAT Horseshoe Bend	11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA NE NW Sec 35-T16S-R21E	12. COUNTY OR PARISH Uintah	13. STATE Utah
---	---	---	--	--	--------------------------------------	------------------------	--	-------------------	--	---	--------------------------------	-------------------

14. PERMIT NO. 43-047031868	DATE ISSUED 7-07-89	15. DATE SPUNDED 8-22-89	16. DATE T.D. REACHED 8-27-89	17. DATE COMPL. (Ready to prod.) WO P&A	18. ELEVATIONS (DF, REB, RT, GR, ETC.) 4753' GR, 4767' KB	19. ELEV. CASEHEAD 4756'	20. TOTAL DEPTH, MD & TVD 3650'	21. PLUG, BACK, T.D., MD & TVD Cmt retainer @ 3380'	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY Rotary Tools	24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD) Uintah "B" (proven non-commercial) 3274'-3408'	25. WAS DIRECTIONAL SURVEY MADE NO	26. WAS WELL CORED NO
--------------------------------	------------------------	-----------------------------	----------------------------------	--	--	-----------------------------	------------------------------------	--	-----------------------------------	--	--	---------------------------------------	--------------------------

28. TYPE ELECTRIC AND OTHER LOGS RUN
Dual Induction/ Gamma Ray-SP

Compensated Densilog/Compensated Neutron - Caliper

29. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24.0	337	12 1/4"	150 sxs 50/50 poz+75 sxs	G
4 1/2"	10.5	3650	7 7/8"	350 sxs "G"	

30. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

3274-6	2'	2 JSPF	5 holes
3283-6	3'	2 JSPF	7 holes
3293-5	2'	2 JSPF	5 holes
3301-4	3'	2 JSPF	7 holes
3307-10	3'	2 JSPF	7 holes
3359-62	3'	2 JSPF	7 holes
3389-91	2'	2 JSPF	7 holes
3397-9	2'	2 JSPF	5 holes
3405-8	3'	2 JSPF	7 holes

Cmt retainer @
3380'

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
Group I	Acidized w/250 gal 15% HCL + 1000 gals 7 1/2%
Group II	Acidized w/250 gal 15% HCL + 500 gal 7 1/2% HCL

PRODUCTION

DATE FIRST PRODUCTION SIWOPL		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'Y. FOR TEST PERIOD	OIL—BBL.	GAS—MCV.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCV.	WATER—BBL.	OIL GRAVITY-APF (CORR.)	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
Completion was unsuccessfully attempted - Well is currently shut-in waiting on confirmation of orders to P&A

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

You should have copies of all required logs, tests and reports.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Cory West

TITLE

Petroleum Engineer

DATE

9-15-89

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on Items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see Item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in Item 22, and in Item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in Item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sack's Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for Items 22 and 24 above.)

37. SUMMARY OF POROSITY ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			38. GEOLOGIC MARKERS			
FURNATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Uintah "B"	3039 (+1728)		Uintah IHP = 1489# IFP = 37-159# ISIP = 1507# FFP = 178-300# FSIP = 1498# FHP = 1470# Rec 722' water			
DST #1	3144-3209					

OIL AND GAS	
DRN	RIF
JRB	CLH
DTS	SLS
1-TAS	
MICROFILM	
FILE	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back or to change the location of a well. Use "APPLICATION FOR PERMIT" for such proposals.)

RECEIVED
SEP 20 1989

OIL ☐ Gas ☐
WELL ☐ WELL XX OTHER ☐

2. NAME OF OPERATOR

TXO Production Corp.

3. ADDRESS OF OPERATOR

1660 Lincoln St., Suite 1800, Denver, CO 80264

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)

At surface 2132' FSL and 1879' FWL

14. PERMIT NO.

43-047-31868

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4753' GR 4767' KB

5. LEASE DESIGNATION AND SERIAL NO.

U-53862

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Croquet Federal

9. WELL NO.

#4

10. FIELD AND POOL, OR WILDCAT

Horseshoe Bend

11. SEC. T., R., M., OR BLK. AND
SURVEY OR AREA

Sec 35-T6S-R21E

12. COUNTY OR PARISH 13. STATE

Uintah

Utah

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☒

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

TXO Production Corp. intends to plug and abandon the Croquet Federal #4 in the manner outlined below. Please review and, if acceptable, approve at your earliest convenience.

Fill 4 1/2" csg from 3380' (cmt retainer) to 3200' (± 20 sxs 60-40 poz). Cut and pull $\pm 2500'$ 4 1/2" csg. Spot 50' of cmt inside and 50' out of stub (± 30 sxs) Spot 50' of cmt inside and 50' out of 8 5/8" csg set @ 337'. The surface will be plugged with 25 sxs. All gaps between plugs will be filled with mud. 8 5/8" csg will be cut off and capped with a 1/4" plate 3'+ below ground level. Well indentify and location will be marked, as required

OIL AND GAS	
DRN	DRF
JRB	CLH
DTS	SLS
A-TAS	
MICROFILM	
FILE	

18. I hereby certify that the foregoing is true and correct.

SIGNED

Cory West
Cory West

TITLE Petroleum Engineer

DATE 9-15-89

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

Federal approval of this action
is required before commencing
operations.

*See Instructions on Reverse Side

9-26-89
BY: *John R. Bays*

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE
(Other instructions on reverse side)

Form approved
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
For APPLICATION FOR PERMIT—see Form 1000-10135)

1. WELL <input type="checkbox"/> WELL <input checked="" type="checkbox"/> OTHER Notice of Plug and Abandonment		5. LEASE DESIGNATION AND SERIAL NO. U-53860
2. NAME OF OPERATOR TXO Production Corp.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -
3. ADDRESS OF OPERATOR 1660 Lincoln St., Suite 1800, Denver, CO		7. UNIT AGREEMENT NAME -
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2132' FSL and 1879' FWL		8. FARM OR LEASE NAME Croquet Federal
14. PERMIT NO. 43-047-31868		9. WELL NO. 4
15. ELEVATIONS (Show whether OF, RT, GR, etc.)		10. FIELD AND POOL, OR WILDCAT Horseshoe Bend
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 35-T6S-R21E
		12. COUNTY OR PARISH Uintah
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PCLL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETION <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE TERMINATED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to the work.)

TXO Production Corp. plugged the Croquet Federal #4 from 1-24-90 through 1-27-90 as follows:

- 20 sx class "G" plug from 3370' to 3115'.
Top of plug tagged the following day @ 3177'.
- Cut and pulled 2680.87' of 4-1/2", 10.5#, K-55" csg.
Spotted 60 sx plug (200') 60/40 poz-mix on top of stub from 2680' to 2480'.
- 70 sx 60/40 poz (232') plug from 1275' to 1042'.
- 50 sx 60/40 poz (258') plug from 415' to 257'.
- 40 sx 90' to surface. All spaces between plugs filled w/ 9PPG⁴ mud. Installed dry hole marker.
- Plugging complete, released rig at 4:30 pm 1-26-90.

A representative from the BLM witnessed all phases of the operation.

OIL AND GAS	
TXO	RJF
CRJ	GLH
BT	SLS
1-TAS	
MICROFILM	
2-	FILE

18. I hereby certify that the foregoing is true and correct

SIGNED Wayne C. West
(This space for Federal or State office use)

TITLE Area Dir. & Prod. Eng.

DATE 4-6-90

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

*See Instructions on Reverse Side